AMENDMENT OF SOLICITATION/MO	DIFICATION OF CO	NTRACT	1. CONTRACT ID CODE	PAGE	PAGE OF PAGES		
				1	3		
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE D		4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)		
0298 6. ISSUED BY	See Bloc	k 16C	7. ADMINISTERED BY (If other than Item 6)	CODE			
REGION 3 US ENVIRONMENTAL PROTECT 1650 ARCH STREET PHILADELPHIA PA 19103-20	ION AGENCY			L			
8. NAME AND ADDRESS OF CONTRACTOR (N	io., street, county, State and Z	IP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO.	-			
HYDROGEOLOGIC INC 11107 SUNSET HILLS ROAD S RESTON VA 20190-5309	SUITE 400		9B. DATED (SEE ITEM 11)  10A. MODIFICATION OF CONTRACT/ORD EP-S3-07-05	DER NO.			
OODE	FAQUETY 0000		10B. DATED (SEE ITEM 13)				
CODE 193942604	FACILITY CODE		06/28/2007 MENDMENTS OF SOLICITATIONS				
virtue of this amendment you desire to change to the solicitation and this amendment, and is:  12. ACCOUNTING AND APPROPRIATION DAT See Schedule  13. THIS ITEM ONLY APPLIE  CHECK ONE  A. THIS CHANGE ORDER IS IS ORDER NO. IN ITEM 10A.  B. THE ABOVE NUMBERED CC appropriation date, etc.) SET  C. THIS SUPPLEMENTAL AGR	e an offer already submittereceived prior to the open (A (If required)  S TO MODIFICATION OF  SUED PURSUANT TO: (3  DOTRACT/ORDER IS MO FORTH IN ITEM 14, PUF  EEMENT IS ENTERED IN  ification and authority)	d, such change may be ing hour and date specification of the contracts/orders:  Specify authority) THE  DIFIED TO REFLECT* RSUANT TO THE AUTHORS	CHANGES SET FORTH IN ITEM 14 ARE MADI	ram or letter makes in a contract in the contract	TEM 14.		
X   B.2 Work Assignm	ents						
	s not,  is required to			-			
14. DESCRIPTION OF AMENDMENT/MODIFIC DUNS Number: 193942604 The purpose of this Modi: Revision 1 to Work Assign	fication is t	o issue Rev	·		03Q9 and		
Except as provided herein, all terms and condition 15A. NAME AND TITLE OF SIGNER (Type or put 15B. CONTRACTOR/OFFEROR	rint)	enced in Item 9A or 10A 5C. DATE SIGNED	a, as heretofore changed, remains unchanged an 16A. NAME AND TITLE OF CONTRACTING John Robb				
(Signature of person authorized to sign			(Signature of Contracting)Officer)		14:18. 1114		
NSN 7540-01-152-8070	1			STANDARD FO	DRM 30 (REV. 10-83)		
Previous edition unusable			Prescribed by GSA FAR (48 CFR) 53.243				

	EPA WORK ASS	SIGNMENT FORM	1 (WAF) FOR R	AC			
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: <u>Arrowhea</u>	nd Plating Superfund Site	Contractor: HGL		WA No.:	WA No.: 057RIFS03Q9		
Activity: RIFS		EPA Contract NoE	EP-S3-0705	Revision No.	: _ Three (3)		
Date: <u>12-17-2014</u> (Contracting Officer Use O	nly)	Contractor Control N	0	Modification	No.: 298		
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity		Partial WP Approval WP Disapproval Final WP Approval Final WP Approval Amendment to Final		n e, budget, or hin SOW G/LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther		
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA	Term WA	Approved Work	Plan Budget	Exper	nditure Limits Not to Be Exceeded		
Total Funding Receive	ed (\$)	LOE Term WAs Only	(\$)*	LOE Term WAs	(\$)* only		
Previous Total	<del></del>	1746	416,997	900	210,000		
This Action		0	0	400	0		
New Total		* Inclu	416,997 des fees	1,300 * Includes fo			
Funding Category: <u>Bulk</u>		· moru	ues ices	includes it	005		
Activity Code: _RIFS	S/SID: 03Q9						
4. WA COMPLETION I	OATE Current: 12-	31-2015	Revised:				
and monitoring well		ı, Total Oxidant Dema			y (DPT) for soil/groundwater No. R34401will be procured		
directly by HGL till	ough the Her IV Proc	ess.					
6. APPROVALS		***************************************					
Contractor Signatures:		Е	PA Signatures:				
Site Manager/Firm			/ Ronnie M. Davis , Ext. /ork Assignment Manager		<u>12-17-2014</u> Date		
Program Manager/Firm		Date /s	/ Mikal Shabazz, Est. 4- Project Officer	3281	12-17-2014 Date		
X Approved As A Submitted Chang	pproved With Not es Approved	Sign	Adult of Contracting Office	A) perl	12015-2011 Date		

	EPA WORK ASS	SIGNMENT FO	ORM (W	AF) FOR RA	AC	
1. WORK ASSIGNMEN	T (WA) INFORMATION					
Project Name: North Penn	Area 5 - OU1	Contractor: HGI			WA No.:	<u>063TATA03W6</u>
Activity: Remedial Action	n Oversight	EPA Contract No. <u>EP-S3-07-05</u>			Revision	No.: One (1)
Date: 12/16/2014		Contractor Contro	ol No			tion No∴ <u>298</u> ting Officer Use Only)
2. DESCRIPTION OF A	CTION					
New WA . Attach SOW including schedule . Designate WAM	_ WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval WP Disapproval WP Approval WP Approval XUnilateral Amendment to Final WP Approval  Approve change in LOE, scope, or budget  Approve additional tasks Technical Direct Memorandum  Details on scope, to schedule  Minor shift within (no change in \$/LCC)  Change WAM Set or revise expendiment (EL)		, budget, or n SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other	
3. BUDGET INFORMA	ΓΙΟΝ					
Completion WA X	_ Term WA	Approved	l Work Plan I	Budget	Expen	diture Limits Not to Be Exceeded
Total Funding Receive	ed (\$)	LOE Term WAs Only	(\$)* Only		LOE Term WAs o	(\$)* only
Previous Total		231	35	5 <u>,247</u>	231_	<u>35,247</u>
This Action		200	<u>200</u> <u>34,916</u>		200	<u>34,916</u>
New Total		<u>431</u>			431	70,163
Funding Category: Bulk	Funding	* Includes fees	ludes fees		* Includes fe	es
Activity Code: TATA	S/SID:03W6					
4. WA COMPLETION I	OATE Current: 09-3	30-2015	Revis	ed:		
concurs with the F assignment form w work assignment f	unding and LOE ho vithin 5 working day orm.	urs, the contracts after receipt.	tor is req If the con	uired to returi tractor does n	n a signed ot concur,	cct. If the contractor copy of the work this must be noted on the Penn 5 OU1 pump and treat
6. APPROVALS						
Contractor Signatures:			EPA Sig	gnatures:		
Site Manager/Firm		Date		on Fang k Assignment Manag ne Number	ger	12-16-2014 Date 215-814-3018
Program Manager/Firm		Date	Proje	al Shabazz ect Officer ne Number	A	12-16-12014 Date 215-814-3281
X Approved As Approved As Change	proved With Not es Approved		Signature o	f Contracting Officer	14/	12/19.2014 Date

AMENDMENT OF SOLICITATION/M		CONTRACT ID CODE		PAGE OF PAGES			
2. AMENDMENT/MODIFICATION NO.	3. EFFEC	TIVE DATE	4. R	EQUISITION/PURCHASE REQ. NO.	5. PI	1 ROJECT NO	4 . (If applicable)
0299		Block 16C					
6. ISSUED BY	CODE R3	STOCK TOC	7. A	DMINISTERED BY (If other than Item 6)	COD	Ε	
REGION 3 US ENVIRONMENTAL PROTEC 1650 ARCH STREET PHILADELPHIA PA 19103-2		Y					
8. NAME AND ADDRESS OF CONTRACTOR	(No., street, county, Sta	te and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.			
HYDROGEOLOGIC INC	SUITE 400			9B. DATED (SEE ITEM 11)			
RESTON VA 20190-5309		*	x	10A. MODIFICATION OF CONTRACT/ORDE	R NO.		
				EP-S3-07-05			
0005	1	10B. DATED (SEE ITEM 13)					
CODE 193942604	FACILITY			06/28/2007			
The above numbered solicitation is amended				DMENTS OF SOLICITATIONS	extended.	□is not e	
THE PLACE DESIGNATED FOR THE RECI virtue of this amendment you desire to chang to the solicitation and this amendment, and i 12. ACCOUNTING AND APPROPRIATION DA	EIPT OF OFFERS P ge an offer already s s received prior to th	RIOR TO THE HOUR AND I ubmitted, such change may l	DATE :	FAILURE OF YOUR ACKNOWLEDGEMENT SPECIFIED MAY RESULT IN REJECTION O te by telegram or letter, provided each telegra	F YOUR (	OFFER. If b	/
See Schedule							
13. THIS ITEM ONLY APPL	IES TO MODIFICATI	ON OF CONTRACTS/ORDE	RS. IT	MODIFIES THE CONTRACT/ORDER NO. AS	DESCRI	BED IN ITEM	1 14.
CHECK ONE A. THIS CHANGE ORDER IS ORDER NO. IN ITEM 10A.	SSUED PURSUAN	TTO: (Specify authority) TH	E CHA	NGES SET FORTH IN ITEM 14 ARE MADE	IN THE C	ONTRACT	
B. THE ABOVE NUMBERED ( appropriation date, etc.) SE	CONTRACT/ORDER T FORTH IN ITEM	IS MODIFIED TO REFLECT 14, PURSUANT TO THE AU	THE THOR	ADMINISTRATIVE CHANGES (such as chan TY OF FAR 43.103(b).	ges in pa	ying office,	
C. THIS SUPPLEMENTAL AG	REEMENT IS ENTE	RED INTO PURSUANT TO	AUTH	DRITY OF:			
D. OTHER (Specify type of mo	dification and autho	rity)					
X B.2 Work Assign	ments						
E. IMPORTANT: Contractor X	is not, 🗌 is requ	uired to sign this document a	nd retu	rn0 copies to the is:	suing offic	æ.	
14. DESCRIPTION OF AMENDMENT/MODIF	ICATION (Organized	f by UCF section headings, is	ncludir	ng solicitation/contract subject matter where fe	easible.)		
OUNS Number: 193942604							
The purpose of this Mod:	ification :	is to issue Rev	/isi	on 14 to Work Assignme	nt 00	5MEMEC	360,
Revision 15 to Work Ass:	ignment 023	3RSBD03EQ and E	Revi	sion 12 to Work Assign	ment	039TAT	A0311.
	-						
Except as provided herein, all terms and condi	tions of the documer	nt referenced in Item 9A or 10	0A, as	heretofore changed, remains unchanged and	in full for	ce and effec	t.
15A. NAME AND TITLE OF SIGNER (Type or	print)		16	A. NAME AND TITLE OF CONTRACTING C	FFICER	(Type or prir	t)
			J	ohn Robb			
15B. CONTRACTOR/OFFEROR	-	15C. DATE SIGNED		B. UNITED STATES OF AMERICA /		11	SC. DATE SIGNED
y		Sittle Giornes	1	F1/17/17/11/1		"	
(Signature of person authorized to sig	nn)			(Signature of Contracting Officer)			1.7 /
NSN 7540-01-152-8070		<i>_</i>	and the second	/ (og.a.o or portraoring smoot)	STAND	ARD FORM	30 (REV. 10-83)
Previous edition unusable				/		bed by GSA	

EP-S3-07-05/0299

Prescribed by GSA FAR (48 CFR) 53.243

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT (WA) INFORMATION							
Project Name: Mill Creek	Dump	Contractor:	HGL		WA No.:_0	005MEME0360	
Activity: LTRA/O	EPA C	ontract No. EP-S3-0705		******	Revision No	o.: _14 (Fourteen)	
Date: 01-07-2015 (Contracting Officer Use O	Contractor (	Control No.		· · · ·	Modification	on No.: 299	
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval  WP Disapproval  Final WP Approval  Amendment to Final		budget, or n SOW OE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice _X Other Extend the Period of Performance		
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA	Term WA	Approved \	Work Plan l	Budget	Expen	diture Limits Not to Be Exceeded	
Total Funding Receive	ed (\$)	LOE (\$)* Term WAs Only		LOE Term WAs o	(\$)* only		
Previous Total0		_2812	<u>2812</u> <u>417,089</u>		2812	417,089	
This Action0		0		0	0		
New Total0				2812	417,089		
Funding Category: Bulk		•	includes let	zs	* Includes fo	aar	
Activity Code: LTRA S	/SID: <u>0360</u>				menues i		
4. WA COMPLETION I	DATE Current: 12-3	31-2014	Revi	sed: 12-31-2015			
EPA COMMENTS:							
	WA completion date is exte	ended to 12-31-2015					
						W. // / / / / / / / / / / / / / / / / /	
6. APPROVALS			1				
Contractor Signatures:			EPA Si	gnatures:			
Site Manager/Firm		Date	/s/ <u>Jim</u> Work A	Feeney Assignment Manager	]	01-07-2015 Date Phone Number (_)	
Program Manager/Firm			al Shabazz mental Engineer		01-07-2015 Date		
_X Approved As A Submitted Chang	pproved With Not es Approved	Signa	ture of Cor	ptracting Officer,		1 5 15 Date	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT (WA) INFORMATION							
Project Name: Centra	al Chemical	Contrac	ctor: <u>HC</u>	àL	WA I	No.: 023RSBD	03EQ
Activity: RIFS Oversight	EPA Contract	No. <u>EPS30705</u>			Revisior	n No.: <u>15 (Fift</u>	een)
Date: 01-07-2015	Contractor Contr	ol No.			Modific	ation No.: 29	9
						(Contracting Offi	cer Use Only)
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/o cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Ap  WP Disapprov Final WP App  Amendment t  WP Approval Approve change in scope, or budget Approve additiona	al roval o Final n LOE,	Technical E  Memorandur  Details on scope or schedule  Minor shift withi (no change in \$  Change WAM  Set or revise expenditure limit	m e, budget, n SOW s/LOE)	Incrementa	I WP  out Notification  or to initiate  ask  er final invoice
3. BUDGET INFORMATION							
Completion WA _X		(\$)* LOE		LOE Term WAs 	•	Be Exceeded (\$)* 556,360	
New Total 55  Funding Category: E  Activity Code: RSBD		3,979	609,049 3,97 * Includes fees * Includes				556,360
4. WA COMPLETION D	ATE Current:	12-31-2014			_	Revised:	12-31-2015
5. EPA COMMENTS: The Amendment extends the POP to 12/31/2015  6. APPROVALS							
Contractor Signatures:		HALVY 111-7	EDAG	ianaturee.			
Site Manager/Firm Date			EPA Signatures:  Robert Walllace /4-3278				
Program Manager/Firm	I	Date	Project	Officer/Phone		Date	
X Approved As Approved With Not Submitted Changes Approved			Signature of Contracting Officer Date			195	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: Lehigh Electric – OU1 Site Wide  Activity: Technical Assistance  Date: 01/08/2015		Contractor: HGL  EPA Contract No. EP-S3-07-05  Contractor Control No.			WA No.: 039TATA0311  Revision No.: 12 (Twelve)  Modification No.: 299 (Contracting Officer Use Only)		
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval WP Disapproval Final WP Approval Unilateral Amendment to Final WP Approval . Approve change in LOE, scope, or budget . Approve additional tasks		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX Other Extending POP		
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA _X Total Funding Received Previous Total This Action		Approved Work Plan Budget  LOE (\$)*  Term WAs Only		(\$)* 10,470 0	LOE Term WAs o	<u>205,470</u> 0	
New Total  Funding Category:Bulk    Activity Code:TATA	-	* Includes fees	2	10,470	1696 * Includes fe		
4. WA COMPLETION I	DATE Current: 12-3	31-2014	Revis	ed: <u>12-31-2015</u>			
5. EPA COMMENTS:  This work assignment extends the Period of Performance to 12/31/2015 .							
6. APPROVALS							
Contractor Signatures: Site Manager/Firm  Program Manager/Firm		Date    S   Roy Schrock   Work Assignment Manage   Phone Number		ger	01-08-2015 Date 215-814-3210  01-08-2015 Date		
X Approved As A Submitted Chang	pproved With Not es Approved		4	ne Number  Contracting Officer	M	215-814-3281 / S / 5 Date	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
0300 See Block 16C		
6. ISSUED BY CODE R3	7. ADMINISTERED BY (If other than Item 6)	OODE
REGION 3 US ENVIRONMENTAL PROTECTION AGENCY 1650 ARCH STREET PHILADELPHIA PA 19103-2029		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO.	
	(4)	
HYDROGEOLOGIC INC 11107 SUNSET HILLS ROAD SUITE 400	9B. DATED (SEE ITEM 11)	
RESTON VA 20190-5309		
	10A. MODIFICATION OF CONTRACT/ORDER NO	
	EP-S3-07-05	
	10B. DATED (SEE ITEM 13)	
CODE 193942604 FACILITY CODE	06/28/2007	
11. THIS ITEM ONLY APPLIE:  The above numbered solicitation is amended as set forth in Item 14. The hour and date	S TO AMENDMENTS OF SOLICITATIONS  specified for receipt of Offers   is extend	led. Tis not extended.
12. ACCOUNTING AND APPROPRIATION DATA (If required)  See Schedule  13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/C  CHECK ONE  A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority ORDER NO. IN ITEM 10A.  B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REF appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO TH  C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT  D. OTHER (Specify type of modification and authority)  X B. 2 Work Assignments	r) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE FLECT THE ADMINISTRATIVE CHANGES (such as changes in E AUTHORITY OF FAR 43.103(b).	E CONTRACT
E. IMPORTANT: Contractor X is not. is required to sign this docum	nent and return0 copies to the issuing	office.
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headi	ngs, including solicitation/contract subject matter where feasible	e.)
DUNS Number: 193942604		
The purpose of this Modification is to issue	Revision 13 to Work Assignment	044RICOA3Z4 and
Revision 2 to Work Assignment 063TATA03W6.	-	
er,		
,		
		•
Except as provided herein, all terms and conditions of the document referenced in Item 9/	A or 10A as heretofore changed remains unchanged and in fu	Il force and effect.
15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFIC	ER (Type or print)
	John Robb	
		16C. DATE SIGNED
15B. CONTRACTOR/OFFEROR 15C. DATE SIG	NED 16B UNITED STATES OF AMERICA	IOC. DATE SIGNED
	4-11-11-11-11-11-11-11-11-11-11-11-11-11	1-11-15
(Signature of person authorized to sign) NSN 7540-01-152-8070	(Signature of Contracting Officer)	ANDARD FORM 30 (REV. 10-83)
	,	escribed by GSA

Page 1 of 3

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMEN	T (WA) INFORMATION							
Project Name: Peck Iron Activity: RIFS Date: 01-21-2015 (Contracting Officer Use Contracting Officer U	ctor: <u>HGL.</u> Contract No. <u>EP-S3-07-05</u> ctor Control No	WA No.: 044RICOA3Z4  Revision No.: 13 (Thirteen)  Modification No.: 300						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAMWA Add additional tasks or funds for increased activity		Partial WP Approval  WP Disapproval  Final WP Approval  Amendment to Final WP Approval Approve change in LOE, scope, or budget Approve additional tasks		_X_ Technical Direction Memorandum . Details on scope, budget, or schedule . Minor shift within SOW (no change in \$/LOE) . Change WAM _X_ Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX Other _Extend the period of performance		
		Approved V	Jork Dian I	Qudget	Expe	nditure Limits Not to Be Exceeded		
Completion WAX_ Term WA  Total Funding Received (\$)		Approved Work Plan Bu  LOE Term WAs Only		(\$)*	LOE Term WAs	(\$)*		
Previous Total		11,173	2,1	08,753	7090	1,245,000		
This Action		0		0				
New Total  Funding Category: Bu  Activity Code: RICO	<del></del>	11,173 * Includes fees			* Includes 1	0 1,265,000 fees		
		31-2014	Revis	ed: 12-31-2016	J	· · · · · · · · · · · · · · · · · · ·		
4. WA COMPLETION DATE  Current: 12-31-2014  Revised: 12-31-2016  5. EPA COMMENTS:  This amendment extends the POP to 12/31/2016. It also facilitates Tier 4 laboratory procurement that will be used to provide analysis of samples collected during Field Events 4 through 14 for parameters that are otherwise analyzed through the DAS program.  The contractor should continue to send analytical request forms for DAS parameters to OASQA and await authorization from the WAM prior to issuing procurement requests for Tier IV analytical services.								
6. APPROVALS								
Contractor Signatures:		-	EPA Si	gnatures:				
Site Manager/Firm		Date	/s/ <u>De</u> Work A	ora Rossi Assignment Manager		01-21-2015 Date Phone Number (4-3228)		
Program Manager/Firm		Date		kal Shabazz nmental Engineer		01-21-2015 Date		
Approved As _X Submitted Chang	Approved With Not Not Approved	Signature of Co	ntracting (	Officer AM	4.1	M Date 1:47:5		

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMEN	T (WA) INFORMATION							
Project Name: North Penn Area 5 - OU1  Activity: Technical Assistance  Date: 01/21/2015		Contractor: HGL  EPA Contract No  Contractor Control 1			Revision	063TATA03W No.:Two (2) tion No.: 300		
			(Contrac	ting Officer Use	e Only)			
2. DESCRIPTION OF A New WA . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP ApprovalTechnical Direct Memorandum . Details on scope, schedule . Minor shift within (no change in \$/L \) WP Approval . Approve change in LOE, scope, or budget . Approve additional tasks X Set or revise explain to Elimit (EL)		Memorandum tails on scope, but tedule nor shift within S change in \$/LOF ange WAM	dget, or OW E)	WA Closeout Notification  Notify contractor to initiate WA closeout task  Revise EL after final invoice  Other		
3. BUDGET INFORMA	TION							
Completion WA X_ Term WA  Total Funding Received (\$)		Approved Work Plan Budget  LOE (\$)* Term WAs Only		Т	Expenditure Limits Not to Be Exceed  LOE (\$)*  Term WAs only		(\$)*	
Previous Total         0           This Action         0           New Total         0           Funding Category:         Bulk Funding           Activity Code:         TATA         S/SID:         03W6		431 70,163 498 78,950 929 149,113 * Includes fees			4	189 198 229 2es		
4. WA COMPLETION I	DATE Current: 09-	30-2015	Revised:					
4. WA COMPLETION DATE  Current: 09-30-2015  Revised:  5. EPA COMMENTS:  This work assignment is being issued on a unilateral basis in accordance with the contract. If the contractor concurs with the Funding and LOE hours, the contractor is required to return a signed copy of the work assignment form within 5 working days after receipt. If the contractor does not concur, this must be noted on the work assignment form.  Provide technical assistance with Environmental Alliance comment 19 that requires analyzing 17 sites listed for similarities and dissimilarities, as well as, providing a draft response for comments 5, 6, 7, 8, 10, 12, 13, 14 & 15. In addition, a draft response for Geosyntec's comments is required.								
6. APPROVALS								
Contractor Signatures: Site Manager/Firm		Date	EPA Signature: /s/ <u>Sharon Fan</u> Work Assig Phone Nur	g gnment Manager			-21-2015 Date 814-3018	
Program Manager/Firm		Date					-21-12015 Date -814-3281	
Approved AsX A Submitted Chang	Approved With Not ges Approved	•	Signature of Contr	A / / / acting Officer,	111		1-22:15 Date	

AMENDM	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES		
2. AMENDM	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	QUISITION/PURCHASE REQ. NO.	5. PR	1 3 OJECT NO. (If applicable)		
0301		See Block 16C						
6. ISSUED B	CODE	R3	7. Al	OMINISTERED BY (If other than Item 6)	CODE	:		
1650 A	3 IRONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	AGENCY						
8. NAME AN	D ADDRESS OF CONTRACTOR (No., street	t, county, State and ZIP Code)	(x) 9	A. AMENDMENT OF SOLICITATION NO.				
11107 s	COLOGIC INC CUNSET HILLS ROAD SUIT VA 20190-5309	E 400		B. DATED (SEE ITEM 11)  OA. MODIFICATION OF CONTRACT/ORDE	FR NO			
			×	P-S3-07-05  OB. DATED (SEE ITEM 13)				
CODE 1	93942604	FACILITY CODE	_	06/28/2007				
		11. THIS ITEM ONLY APPLIES 1	O AMENI	MENTS OF SOLICITATIONS				
THE PLAC virtue of th to the solic	etter or telegram which includes a reference CE DESIGNATED FOR THE RECEIPT OF I lis amendment you desire to change an offe citation and this amendment, and is received NTING AND APPROPRIATION DATA (If rec	to the solicitation and amendment no OFFERS PRIOR TO THE HOUR AN or already submitted, such change mad prior to the opening hour and date s	umbers. F D DATE S ay be made	PECIFIED MAY RESULT IN REJECTION O	TO BE RE	CEIVED AT FFER. If by		
see sci		ODIFICATION OF CONTRACTS/ORI	DERS. IT	MODIFIES THE CONTRACT/ORDER NO. AS	DESCRIB	ED IN ITEM 14.		
OUEN/ ONE								
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED F ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority)	THE CHA	IGES SET FORTH IN ITEM 14 ARE MADE	IN THE CO	NTRACT		
				DMINISTRATIVE CHANGES (such as char Y OF FAR 43.103(b).	iges in payi	ng office,		
	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT T	O AUTHO	RITY OF:				
	D. OTHER (Specify type of modification	and authority)		<u> </u>				
X	B.2 Work Assignments							
E. IMPORTA	NT: Contractor X is not,	is required to sign this document	t and retur	n 0 copies to the is	suing office			
14. DESCRI	PTION OF AMENDMENT/MODIFICATION imber: 193942604	(Organized by UCF section headings	s, including	solicitation/contract subject matter where f	easible.)			
The pur	pose of this Modifica	tion is to issue R	evisi	on 14 to Work Assignme	nt 044	4RICOA3Z4 and		
	on 2 to Work Assignmen							
	ovided herein, all terms and conditions of the	ne document referenced in Item 9A or		eretofore changed, remains unchanged and				
	and the state of t			ohn Robb		>+ +·····y		
15B. CONTR	ACTOR/OFFEROR	15C. DATE SIGNED		UNITED STATES OF AMERICA		16C. DATE SIGNED		
NON 75 40 0	(Signature of person authorized to sign)	·		(Signature of Confracting Officer)	QTAND/	ARD FORM 30 (REV. 10.93)		
NSN 7540-0 Previous edit	1-152-8070 tion unusable					ARD FORM 30 (REV. 10-83) ed by GSA		

EP-S3-07-05/0301

Page 1 of 3

Prescribed by GSA FAR (48 CFR) 53.243

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT (WA) INFORMATION							
Project Name: Peck Iron Activity: RIFS Date: 01-29-2015 (Contracting Officer Use C 2. DESCRIPTION OF A	Contractor Only) CTION	Contractor: HGL. Contract No. EP-83-0705 Control No.		Revisior	n No.: <u>14 (Fo</u> Mod	lification No.: 301	
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP ApprovalWP DisapprovalFinal WP ApprovalFinal WP ApprovalAmendment to FinalAmendment to FinalApprove change in LOE,scope, or budgetApprove additional tasks		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other		
3. BUDGET INFORMA							
Completion WATerm WA  Total Funding Received (\$)		Approved W LOE Term WAs Only			LOE Term WAs	diture Limits Not to Be Exceeded (\$)* only	
Previous Total  This Action		0	2,108,753 0_				
New Total  Funding Category: <u>Bu</u>	lk Funding	11,173 2,108,753 * Includes fees					
Activity Code: RICO	S/SID: <u>A3Z4</u>						
4. WA COMPLETION I	DATE Current: 12-	31-2016	Revis	ed:			
5. EPA COMMENTS: This amendment corrects the funding Expenditure Limits.							
6. APPROVALS					14.4. <del>-</del>		
Contractor Signatures:			EPA Si	gnatures:			
Site Manager/Firm  Date  /s/_Debra Rossi  Work Assignment Manager						01-29-2015 Date Phone Number ()	
Program Manager/Firm		Date		kal Shabazz onmental Engineer		01-29-2015 Date	
X Approved As Submitted Change	Approved With Not ges Approved	Signature of Con	atracting (	Officer M		1 - 19. 15 Date	

	EPA WORK ASS	SIGNMENT FO	RM (W	'AF) FOR RA	AC		
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: <u>Baghurst D</u> Activity: <u>Technical Assist</u>		Contractor: HGL  EPA Contract No.				061TATAA3WY No.: <u>Two (2)</u>	
Date: <u>01/26/2015</u>		Contractor Control 1	No			tion No.: 301 ting Officer Use Only)	
2. DESCRIPTION OF A	CTION						
New WA . Attach SOW including schedule . Designate WAM	_WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Appro  — WP Disapproval  — Unilateral WP Approval  X Unilateral Ame to Final WP Approva . Approve change in scope, or budget . Approve additional	oproval ndment il LOE,	Technical Direct Memorandum . Details on scope, schedule . Minor shift within (no change in \$/I Change WAM Set or revise explimit (EL)	, budget, or in SOW LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther	
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA X	Term WA	Approved V	ork Plan I	Budget	Expenditure Limits Not to Be Exceeded		
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs o	(\$)* only	
Previous Total	<u> </u>	794		<u>75,400</u>	794_	<u>75,400</u>	
This Action	0	80_		10,000	80	_10,000	
New Total	<u> </u>	* Includes fees		85,400	874 * Includes fe	<del> </del>	
Funding Category: Bulk I	Funding						
Activity Code: TATA	S/SID: <u>A3WY</u>						
4. WA COMPLETION I	OATE Current: 03-	31-2015	Revis	ed:			
5. EPA COMMENTS:							
concurs with the cos working days after r This WAF adds LOE	t and LOE hours, the eccipt. If the contract	contractor is required to concur, on al LOE is needed b	ed to ret this mu ecause th	turn a signed co st be noted on the ne effort to manu	py of the w he work as	ntract. If the contractor ork assignment form within 5 signment form.  r data from historical reports	
6. APPROVALS							
Contractor Signatures:			EPA Sig	gnatures:			
Site Manager/Firm		Date	Wor	lie Root k Assignment Manag ne Number	ger	01-26-2015 Date 215-814-3193	
Program Manager/Firm		Date	Proje	al Shabazz ect Officer ne Number		01-26-2015 Date 215-814-3281	
_Approved AsX_App. Submitted Change	roved With Not es Approved	4	Signature o	A Manda f Contracting Officer	<u></u>	1 ~ 19.15 Date	

AMENDMI	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	PA	GE OF PAGES
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	UISITION/PURCHASE REQ. NO.	5. PROJE	1 4 CCT NO. (If applicable)
0302		See Block 16C				
6. ISSUED B	Y CODE	R3	7. AD	MINISTERED BY (If other than Item 6)	CODE	
1650 AF	3 IRONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	AGENCY				
8. NAME ANI	D ADDRESS OF CONTRACTOR (No., street	t, county, State and ZIP Code)	(x) 9/	A. AMENDMENT OF SOLICITATION NO.		
11107 S	OLOGIC INC UNSET HILLS ROAD SUIT	E 400	96	3. DATED (SEE ITEM 11)		
KESTON	VA 20190-5309		x 10	na. MODIFICATION OF CONTRACT/ORDI P-S3-07-05	ER NO.	
CODE 10	02040604	FACILITY CODE		OB. DATED (SEE ITEM 13)		
19	93942604	11. THIS ITEM ONLY APPLIES		06/28/2007  MENTS OF SOLICITATIONS		
virtue of th to the solic		er already submitted, such change d prior to the opening hour and dat quired)	may be made te specified.		am or letter ma	kes reference
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority	/) THE CHAN	GES SET FORTH IN ITEM 14 ARE MADE	IN THE CONT	RACT
				DMINISTRATIVE CHANGES <i>(such as cha</i> Y OF FAR 43.103(b).	nges in paying	office,
	C. THIS SUPPLEMENTAL AGREEMEN	IT IS ENTERED INTO PURSUAN	T TO AUTHO	RITY OF:		
	D. OTHER (Specify type of modification	and authority)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
X	B.2 Work Assignments	& G.6 Contract A	Adminis	tration Representativ	es	
E. IMPORTA	,	is required to sign this docum				
14. DESCRII DUNS Nu	PTION OF AMENDMENT/MODIFICATION umber: 193942604	(Organized by UCF section headi	ings, including	solicitation/contract subject matter where	feasible.)	
	purpose of this Modifon 13 to WOrk Assignment					
2. Clav	use G.6, Contract Admi	nistration Repres	sentati	ves		
Tiffany Phone:	ntracting Officer is o y K. Gillespie 215-814-5308					
Email:	gillespie.tiffany@epa	a.gov				
Continu	ied					
	rovided herein, all terms and conditions of t	he document referenced in Item 9/				
15A. NAME	AND TITLE OF SIGNER (Type or print)			NAME AND TITLE OF CONTRACTING	OFFICER (Typ	e or print)
15B CONT	RACTOR/OFFEROR	15C. DATE SIG		hn Robb		16C. DATE SIGNED
IDD. GUNT	MOTOROFFEROR	IDC. DATE SIGI	1166	S. GIATED STATES OF AWERIUM		1 - 16
	(Signature of person authorized to sign)		<u> </u>	(Signature of Contracting Officer)	A	7 /7 /7
NSN 7540-0 Previous edi	01-152-8070 ition unusable				STANDARI Prescribed FAR (48 CI	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
,		EPA Contract N	lo. <u>EP-S3</u>	WA No.:	Revis	sion No.: 12 (Twelve)	
Date: 2-12-2015 (Contracting Officer Use O		ontrol No.			Modifi	ication No.: 302	
2. DESCRIPTION OF A	CTION					And the second of the factor of the second o	
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Appro  — WP Disapproval  — Final WP Approv  — Amendment to Fi WP Approval  . Approve change in scope, or budget . Approve additional	al nal LOE,	X Technical Dir Memorandum Details on scope, schedule Minor shift withi (no change in \$/I Change WAM Set or revise ex limit (EL)	budget, or n SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other	
3. BUDGET INFORMA	<b>FION</b>		· · · · · · · · · · · · · · · · · · ·				
Completion WA		Approved W LOE	ork Plan E	Budget (\$)*	Expenditure Limits Not to Be Exceeded  LOE (\$)*  Term WAs only		
Previous Total0		Term WAs Only	-				
This Action	0	0	<u> </u>	0	0	0	
New Total 0		2595 255,088 * Includes fees			2595 * Includes fe	<del></del>	
Funding Category: Bulk	and Site Specific					1	
Activity Code: <u>LR</u> S	/SID:03AT					,	
4. WA COMPLETION I	DATE Current: 12-3	11-2014	Revis	sed: 12-31-2015			
5. EPA COMMENTS:	WA completion date is	extended to 12-31-2	015				
6. APPROVALS							
Contractor Signatures:			EPA Sig	gnatures:			
Site Manager/Firm		Date	/s/ <u>John</u> Work A	Epps ssignment Manager	I	2-12-2015 Date Phone Number ()	
Program Manager/Firm		Date		al Shabazz mental Engineer		2-12-2015 Date	
X Approved As A Submitted Chang	pproved With Not es Approved		Signature o	f Contracting Office	r,	J. 19.5 Date	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	Γ (WA) INFORMATION						
Project Name: Spectron Activity: RIFS/O				WA No.:		20306 vision No.: 13 (Thirteen)	
Date: 2-12-2015	Contractor C	ontrol No.				fication No.: 302	
(Contracting Officer Use O							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approd  — WP Disapproval  — Final WP Approv  — Amendment to Final WP Approval  Approve change in scope, or budget  Approve additional	ral nal LOE,	X Technical Dimension Memorandum Details on scope, schedule Minor shift within (no change in \$/I Change WAM Set or revise explaint (EL)	budget, or n SOW .OE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other	
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA  Total Funding Receive Previous Total This Action New Total	ed (\$) 00	Approved W LOE Term WAs Only2528.5		Budget (\$)*  253,850  0  53,850	LOE Term WAs of	5 <u>253,850</u> 0 5 <u>253,850</u>	
Funding Category:Bulk Activity Code:LRS	•						
4. WA COMPLETION I	DATE Current: 12-31	-2014	Revise	ed: 12-31-2015			
5. EPA COMMENTS:	5. EPA COMMENTS:  WA completion date is extended to 12-31-2015						
6. APPROVALS							
Contractor Signatures: Site Manager/Firm Program Manager/Firm		Date	/s/_ <u>Johr</u> Work A /s/_ <u>Mik</u>	gnatures:  a Epps ssignment Manager  al Shabazz mental Engineer	F	2-12-2015 Date Phone Number (_)  2-12-2015 Date	
X Approved As A Chang	pproved With Not es Approved		17	f Contracting Office	۲,	J : 9.167 Date	

	EPA WORK ASS	SIGNMENT FO	RM (W	AF) FOR RA	AC	
1. WORK ASSIGNMEN	T (WA) INFORMATION					
Project Name: William D.  Activity: RA / Oversight  Date: 12-12-2013  (Contracting Officer Use Contracting Officer Use Contrac	Contractor	EPA Cont	ract No. <u>E</u>	tor: <u>HGL</u> :P-S3-0705		Revision No.: 10 (Ten)
2. DESCRIPTION OF A	CTION					
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approval  — WP Disapproval  — Final WP Approval  — Amendment to F WP Approval  Approve change in scope, or budget Approve additional	ral inal LOE,	X Technical Dir Memorandum Details on scope, schedule Minor shift withi (no change in \$/I Change WAM Set or revise ex limit (EL)	budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other
3. BUDGET INFORMA	ΓΙΟΝ					
Completion WA Total Funding Receive		Approved V LOE Term WAs Only	Vork Plan I	Budget (\$)*	Expen LOE Term WAs o	diture Limits Not to Be Exceeded (\$)*
Previous Total181,0	086	1,600	181	1.086	1600_	181,086
This Action	0	0	0		0	0
New Total181.0	New Total <u>181,086</u>		<u> 1,600</u> <u> 181,086</u>		1600 * Includes fo	
Funding Category: Sit	_	* I	ncludes fee	es		
Activity Code: RXBF S						
4. WA COMPLETION I	DATE Current: 12-3	31-2014	Revi	sed: 12-31-2015	- unbald	
5. EPA COMMENTS:	WA completion	date is extended to 1	2-31-20			
6. APPROVALS						
Contractor Signatures:			EPA Sig	gnatures:		
Site Manager/Firm		Date		Gallagher ssignment Manager	1	2-12-2015 Date Phone Number ()
Program Manager/Firm		Date		al Shabazz mental Engineer		2 12-2015 Date
X Approved As A Submitted Chang	pproved With Not Not Approved	Signal	Unre of Con	tracting Officer,	***************************************	7 · / 9 - 19 Date

AMENDMI	ENT OF SOLICITATION/MODIFIC	ATION OF C	ONTRACT		CONTRACT ID CODE	- 1	GE OF PAGES
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. RE	 EQUISITION/PURCHASE REQ. NO.	1	CT NO. (If applicable)
0303		See Bloo	k 16C				
6. ISSUED B	Y CODE	R3		7. A	DMINISTERED BY (If other than Item 6)	CODE	
1650 AF	3 IRONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	AGENCY				L	
8. NAME ANI	D ADDRESS OF CONTRACTOR (No., stree	et, county, State and	ZIP Code)	(x) <sup>9</sup>	A. AMENDMENT OF SOLICITATION NO.		
11107 S	OLOGIC INC UNSET HILLS ROAD SUIT	E 400		9	B. DATED (SEE ITEM 11)		
RESTON	VA 20190-5309				OA. MODIFICATION OF CONTRACT/ORDER N		
				x	EP-S3-07-05	O.	
					OB. DATED (SEE ITEM 13)		
CODE 1	93942604	FACILITY COD	DE		06/28/2007		
		11. THIS ITE	M ONLY APPLIES TO A	MEN	DMENTS OF SOLICITATIONS		
separate le THE PLAC virtue of th to the solic	etter or telegram which includes a reference E DESIGNATED FOR THE RECEIPT OF is amendment you desire to change an off itation and this amendment, and is receive	e to the solicitation OFFERS PRIOR er already submitted and prior to the ope	n and amendment numb TO THE HOUR AND Do led, such change may be	ers. I ATE S a mad	receipt of this amendment on each copy of the of FAILURE OF YOUR ACKNOWLEDGEMENT TO IPECIFIED MAY RESULT IN REJECTION OF YO e by telegram or letter, provided each telegram o	BE RECEI	VED AT R. If by
	ITING AND APPROPRIATION DATA (If re	quired)					
See Sch		AODIFICATION O	E CONTRACTS/ORDER	S IT	MODIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBED	N ITEM 14
CHECK ONE	ORDER NO. IN ITEM 10A.				NGES SET FORTH IN ITEM 14 ARE MADE IN T ADMINISTRATIVE CHANGES (such as changes TY OF FAR 43.103(b).		
	C. THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED	INTO PURSUANT TO A	UTHO	DRITY OF:	int the	
	D. OTHER (Specify type of modification	n and authority)					
Х	B.2 Work Assignments	5					
E. IMPORTA	NT: Contractor X is not.	is required to	o sign this document an	d retu	rn 0 copies to the issuin	g office.	
14. DESCRII DUNS Nu		l (Organized by U	CF section headings, in	cludin	g solicitation/contract subject matter where feasi	ble.)	
					on 41 to Work Assignment		
Revisio	on 13 to Work Assignme	ent 007RO	BE0306 and R	evi	sion 9 to Work Assignmen	t 0351	RICOC368.
		the document refe	renced in Item 9A or 10		heretofore changed, remains unchanged and in f		
15A. NAME /	AND TITLE OF SIGNER (Type or print)				A NAME AND TITLE OF CONTRACTING OFFI iffany Gillespie	сек (Туре	or print)
15B. CONTR	ACTOR/OFFEROR		15C. DATE SIGNED	L	B. UNITED STATES OF AMERICA	کیا	16C. DATE SIGNED
	(Signature of person authorized to sign)				(Signature of Contracting Officer)		140/40//0

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT	(WA) INFORMATION						
Project Name:Jackson	Ceramics, Inc.	Contractor: HGL		WA No	o.: 006RICO032C		
Activity: RI/FS		EPA Contract NoE	EP-S3-07-05	Revision	No.: 41 (Forty-One)		
Date: <u>03-03-2015</u>		Contractor Control No		Modifica	ation No.: 303		
				(Contrac	cting Officer Use Only)		
2. DESCRIPTION OF A	CTION						
New WA	WA Amendment	Partial WP Appr	oval X Technica	l Direction	Incremental Funding		
(need WP for the WA)	(need revised WP and/or	WP Disapproval	Memorand	um	. Fund approved WP		
. Attach SOW	cost estimate)	Final WP Appro	val . Details on sco	pe, budget,	WA Closeout Notification		
including schedule	. Change in LOE or	Amendment to F	inal or schedule		. Notify contractor to initiate		
. Designate WAM	scope by task	WP Approval	. Minor shift wit	hin SOW	WA closeout task		
	. Add additional tasks or	. Approve change in	LOE, (no change in	\$/LOE)	. Revise EL after final invoice		
	funds for increased	scope, or budget	. Change WAM		Other		
	activity	. Approve additional t	asks Set or rev	ise			
	·		expenditure limi	t (EL)			
3. BUDGET INFORMAT	ION						
Completion WA	X Term WA	Approved Wor	k Plan Budget	Expendit	ture Limits Not to Be Exceeded		
Total F	unding Received (\$)	LOE	(\$)*	LOE	(\$)*		
		Term WAs	Only		Term WAs only		
Previous Total		24,879	2,968,520	24,872	2,844,207		
This Action		0_	0		<u> </u>		
New Total		24,879	2,968,520	24,872	22,844,207		
		* Includes fees		* Includes	fees		
Funding Category:Bu	lk Funding						
Activity Code: RICO	S/SID: 032C						
4. WA COMPLETION D	ATE Current:	03-31-2016	Revised:_				
E EDA COMMENTO							
5. EPA COMMENTS:							
_	nendment adds (Tier 4) labo		•		•		
					m laboratory chemical analysis of		
·		•		samples for Sui	Ifide Method: SW9030B/9034.		
The contractor will coordi	nate with the WAM prior to	commencing with any san	npling.				
6. APPROVALS							
Contractor Signatures:			EPA Signatures:				
2.2			/s/ Stephen Tyahla		03-04-2015		
Site Manager/Firm		Date	Work Assignment Ma	nager	Date		
olio managor, r imi		Bato	Phone Number	ago,	215-814-3268		
Program Manager/Firm		Date	Hamber		210 011 0200		
			/s/ Mikal Shabazz		03-04-2015		
			Project Officer		Date		
			Phone Number		215-814-2997		
			2 sold	1 10	215 017 2551		
X Approved As Approved As	pproved WithNot		Liff-on K	/ Delley	Die 03/05/15		
Submitted Cha	anges Approved	5	Signature of Contracting O	fficer /	Date		

	EPA WORK AS	SIGNMENT FO	RM (W	AF) FOR RA	AC		
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: <u>Spectron</u> Activity: <u>RD/O</u>		<del></del>		WA No.:		E0306 sion No.: 13 (Thirteen)	
Date: <u>3-3-2015</u>		ontrol No.			Modific	cation No.: 303	
(Contracting Officer Use C							
2. DESCRIPTION OF A	CTION	1					
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approval  — WP Disapproval  — Final WP Approv  — Amendment to Fi WP Approval  . Approve change in scope, or budget . Approve additional	al nal LOE,	X Technical Di Memorandum Details on scope, schedule Minor shift withi (no change in \$/I Change WAM Set or revise ex limit (EL)	, budget, or in SOW LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther	
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA	Term WA	Approved W	ork Plan I	Budget	Exper	nditure Limits Not to Be Exceeded	
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE (\$)* Term WAs only		
Previous Total	0	2595	_25	5,088	2595	255,088	
This Action	0	0		0	0	0	
New Total	0	<u>2595</u>		2595 * Includes f			
Funding Category: Bulk	and Site Specific	7 11	ncludes fee	es .	* Includes i	ees	
Activity Code: <u>LR</u> S	S/SID:03AT						
4. WA COMPLETION I	DATE Current: 12-	31-2015	Revi	sed: 12-31-2016			
5. EPA COMMENTS:							
This amendment requ	ires the contractor to p	erform the following:					
<ul> <li>Attend progr</li> </ul>	rsight of field activities ress meetings as needed samples as needed.		written a	and photographic	documenta	ation of PRP work)	
This WAF also exten	ds the WA completion	date is extended to 12	2-31-201	6			
6. APPROVALS						1974	
Contractor Signatures:			EPA Si	gnatures:			
Site Manager/Firm		Date	/s/ <u>John</u> Work A	n Epps ssignment Manager		3-3-2015 Date Phone Number (_)	
Program Manager/Firm		Date		al Shabazz imental Engineer		3-3-2015 Date	
X Approved As A Submitted Chang	Approved With Not es Approved	5	L. Signature d	fank k	rellspi	Date 03/05//5	

	EPA WORK ASS	SIGNMENT FO	RM (W	AF) FOR RA	AC	
1. WORK ASSIGNMEN	T (WA) INFORMATION					
D. C. W. D. D.	LOVIOLI	Carre		Y Y	337.4	No · 025DICOC250
Project Name: Ravenswe		<del></del>		L, Inc.		No.: 035RICOC368
Activity: RIFS		Contract No. <u>EP-S3-076</u>			on No.: <u>9 (1</u>	
Date: 2-23-2015 (Contracting Officer Use O	Contractor C	Control No.			Modii	fication No.: 303
2. DESCRIPTION OF A	CTION					
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approduced WP Disapproval — Final WP Approval — Amendment to Final WP Approval — Approve change in scope, or budget — Approve additional	ral nal LOE,	Technical Dire	budget, or n SOW .OE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice X Other Extend the Period of Performance
3. BUDGET INFORMA	ΓΙΟΝ					
Completion WA _X	_Term WA	Approved W	Vork Plan I	Budget	Expen	diture Limits Not to Be Exceeded
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs o	(\$)* only
Previous Total		2545	_330	0,140	2545_	330,140
This Action		0		0	0_	0
New Total		<u>2545</u>	330	0,140	2545 * Includes fe	
Funding Category:Bu	lk Funding	. 11	ilciuues iec	55	includes it	
Activity Code: RICO	S/SID: <u>C368</u>	NATIONAL PROPERTY AND ADMINISTRATION OF THE PROPERT				
4. WA COMPLETION I	OATE Current: 1	2-31-2014	Revi	sed: 12-31-2015		
5. EPA COMMENTS:	WA completion of	late is extended to 12	-31-201:	5.		
6. APPROVALS						
Contractor Signatures:			EPA Si	gnatures:		
Site Manager/Firm		Date		ony Iacobone ssignment Manager		2-23-2015 Date Phone Number ()
Program Manager/Firm		Date		al Shabazz Imental Engineer		2-23-2015 Date
X Approved As Approved As Chang	Approved With Not ges Approved		Ly Signature (	fary K	Sellepi	e 03/05//5- Date

AMENDME	NT OF SOLICITATION/MODIFIC	ATION OF CO	NTRACT		1. CONTRACT ID CODE	PA	AGE OF PAGES 1 5	
2. AMENDMEI	NT/MODIFICATION NO.	3. EFFECTIVE I	DATE	4. RE	UUISITION/PURCHASE REQ. NO.	5. PROJ	ECT NO. (If applicable)	•
0304		See Bloc	k 16C	PR-	R3-15-00159			
6. ISSUED BY	CODE	R3		7. AI	DMINISTERED BY (If other than Item 6)	CODE		
1650 AR	3 RONMENTAL PROTECTION CH STREET LPHIA PA 19103-2029	AGENCY				·		
8. NAME AND	ADDRESS OF CONTRACTOR (No., street	et, county, State and	ZIP Code)	(x) <sup>9</sup>	A. AMENDMENT OF SOLICITATION NO.			
11107 SU	DLOGIC INC JNSET HILLS ROAD SUIT JA 20190-5309	E 400		1	B. DATED (SEE ITEM 11)  OA. MODIFICATION OF CONTRACT/ORDER N	10.		
				F	P-S3-07-05  OB. DATED (SEE ITEM 13)			
CODE 10	22040604	TFACILITY COD	E		, ,			
19	93942604				06/28/2007  DIMENTS OF SOLICITATIONS			
separate let THE PLACI virtue of this to the solici	tter or telegram which includes a referenc E DESIGNATED FOR THE RECEIPT OF s amendment you desire to change an off tation and this amendment, and is receive	e to the solicitation OFFERS PRIOR for already submitted and prior to the oper	n and amendment numb TO THE HOUR AND Do ed, such change may be	ers. F ATE S e mad	eceipt of this amendment on each copy of the of AILURE OF YOUR ACKNOWLEDGEMENT TO PECIFIED MAY RESULT IN REJECTION OF Y a by telegram or letter, provided each telegram o	BE RECE OUR OFF or letter ma	EIVED AT ER. If by akes reference	
12. ACCOUN See Sch	TING AND APPROPRIATION DATA (If re	quired)	Net	In	crease: \$	8,830	.00	
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO:	(Specify authority) THE	CHAI	MODIFIES THE CONTRACT/ORDER NO. AS DI NGES SET FORTH IN ITEM 14 ARE MADE IN ADMINISTRATIVE CHANGES (such as changes IY OF FAR 43.103(b).	THE CON	TRACT	
	C. THIS SUPPLEMENTAL AGREEME	NT IS ENTERED	NTO PURSUANT TO A	UTHO	RITY OF:			
	D. OTHER (Specify type of modificatio							
X	B.2 Work Assignment							
DUNS Nu	PTION OF AMENDMENT/MODIFICATION		o sign this document an CF section headings, in		n0copies to the issuir			
		the document refe	erenced in Item 9A or 10	16	heretofore changed, remains unchanged and in A. NAME AND TITLE OF CONTRACTING OFF iffany Gillespie	full force a	pe or print)	
15B. CONTR	ACTOR/OFFEROR		15C. DATE SIGNED	16	B. UNITED STATES OF AMERICA LUHANY KAULOS	P <sup>O</sup> U	16C. DATE SIGN	NED /R
	(Signature of person authorized to sign)				(Signature of Contracting Officer)	OTANDAS	D FORM 30 (BEV 40.5	41)

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-88) Prescribed by GSA FAR (48 CFR) 53.243

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CONTINUATION CUEFT	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE C	F
CONTINUATION SHEET	EP-S3-07-05/0304	2	5

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
(A)	(D)	(0)	(0)	(1)	( - )
	Add Item 0066 as follows:				
0066	North Penn Area 7 Site ID: 03X1 EPA ID# PAD002498632 Activity (if Site please provide the OU, if applicable): OU3 groundwater study/ analysis Tier 4 procurement Dollar Amount: \$8830 (Special account is available) New or Ongoing: ongoing Contract Name and Number: HGL Inc. Task Order for the Contract : contract number EP-S3-07-05, work assignment WA 046RIFS03XI, A brief description of the activity being funded: groundwater analysis Tier 4 procurement POC: David Turner 215-814-3216 Obligated Amount: \$8,830.00  Accounting Info: 15-TR2B-03S0XX1-303DD2-2505-03X1FS03-C002-1503SK10 17-001 BFY: 15 Fund: TR2B Budget Org: 03S0XX1 Program (PRC): 303DD2 Budget (BOC): 2505 Job #: 03X1FS03 Cost: C002 DCN - Line ID: 1503SK1017-001 Funding Flag: Partial Funded: \$8,830.00				8,830.0
		1			

## **Modification 304**

## **Item 14 Continuation**

- 1. The purpose of this modification is to obligate funding and to issue Revision 7 to Work Assignment 046RIFS03X1 and Revision 16 to Work Assignment 052RICO03DR.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 296	Changes Under This MOD	Total Funding
Term Form Segment			
Estimated Cost	Ezzoma	$\frac{1}{1}$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Fixed Fee	т тхешр	otion (k	(4)
Total	\$40,363,543.40	\$8,830.00	\$40,372,373.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC									
1. WORK ASSIGNMENT (WA) INFORMATION									
Project Name: North Penn 7 Contractor: HGL. WA No.: 046RIFS03X1  Activity: Feasibility Study EPA Contract No. EP-S3-0705 Revision No.: Seven (7)									
Date: 03-12-2015						on No.: 304			
Date: _03-12-2015									
2. DESCRIPTION OF A	CTION				· · · · · · · · · · · · · · · · · · ·				
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Appro  — WP Disapproval  — Final WP Approv  — Amendment to Fi WP Approval  . Approve change in scope, or budget . Approve additional	Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM  LOE,  X Set or revise expenditure limit (EL)		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other			
3. BUDGET INFORMA	TION								
Completion WA	Term WA	Approved W	ork Plan E	Budget	Expen	diture Limits Not to Be Exceeded			
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs o	(\$)* only			
Previous Total 0_		<u>2166</u> <u>340,621</u>		2166	340,621				
This Action 8,830		12	8,830		12	8,830			
New Total <u>8,830</u>		2178 349,451 2178 34  * Includes fees * Includes fees			<u>349,451</u>				
Funding Category:S	pecial Account								
Activity Code: RI S/	SID: <u>03X1</u>								
4. WA COMPLETION I	OATE Current: 6-30-	2015	Revise	ed:					
5. EPA COMMENTS: HGL is to obtain analytic services to perform the groundwater analysis in conjunction with the approved Field Sampling Plan for the North Penn Area 7 OU3 treatability study at 205 Church Road, North Wales, PA.  HGL is to procure lab(s) via EPA's Tier 4 process for the analysis of six samples for CENSUS, Phospholipid fatty acids (PLFA) analysis Dissolved hydrogen and Volatile fatty acids (VFAs), also called low molecular weight organic acids.									
6. APPROVALS	Manufacture (Assessment								
Contractor Signatures:			EPA Sig	gnatures:					
Site Manager/Firm	Site Manager/Firm         Date         /s/_David Turner         03-12-2015           Work Assignment Manager         Date           Phone Number         (215)814-3216					Date			
Program Manager/Firm		Date		l Shabazz ronmental Engineer		03-12-2015 Date			
Approved AsX A Submitted Chang	approved With Not es Approved	Š	JJ	Contraoting Office	filly,	Date 03/12/15			

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMENT (WA) INFORMATION								
Project Name: <u>Chem-Fab</u>	OU 1	Contractor: HGL			WA No.: <u>052RICO03DR</u>			
Activity: RIFS		EPA Contract No.	EP-S3-07-0	5	Revision	No.: 16 (Sixteen	<b>)</b>	
Date: <u>03/09/2015</u>		Contractor Control 1	No			ntion No.: <u>304</u> eting Officer Use O	nly)	
2. DESCRIPTION OF A	CTION							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approval  — WP Disapproval  — Final WP Approval  — Amendment to Final WP Approval  Approve change in scope, or budget  Approve additional	Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM  LOE, X Set or revise expenditure limit (EL)		Incremental . Fund approvedWA Closeou . Notify contract closeout task . Revise EL afteOther	WP t Notification or to initiate WA r final invoice		
3. BUDGET INFORMA	TION							
Completion WA X  Total Funding Receive	-	Approved V	Vork Plan B	udget (\$)*	Expen LOE	nditure Limits Not 1	o Be Exceeded	
Tomi Tunding Receive	cu (#)	Term WAs Only		(Ψ)	Term WAs o	only	(Ψ)	
Previous Total		4,236	_	861,133	3,9	776	836,304	
This Action		50		5,000	-	50	5,000	
New Total		4,286 * Includes fees	<u>866,133</u>		4,0	036	841,304	
Funding Category: Bulk	Funding	Therades rees			· menues re	ces		
Activity Code: RIFS	S/SID: <u>03DR</u>							
4. WA COMPLETION I	DATE Current: 06-	30-2015	Revise	ed:				
5. EPA COMMENTS:								
This amendment info	rms HGL that the Work	cplan for an injection	pilot stud	ly noted on Rev	ision 15, is	no longer requi	red.	
Additionally, this amendment directs HGL to develop a workplan to install additional monitoring wells, collect groundwater samples and conduct other activities recommended in the Data Evaluation Report from January 2015.								
6. APPROVALS								
Contractor Signatures:			EPA Sig	natures:				
Site Manager/Firm		Date		Ngo Assignment Mana ne Number	ger		- <u>2015</u> Date 4- <u>3187</u>	
Program Manager/Firm		Date	Proje Phon	l Shabazz ect Officer e Number			Date	

AMENDME	ENT OF SOLICITATION/MODIFIC	***************************************	CONTRACT ID CODE	PAGE OF PAGES			
2 AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE0	UISITION/PURCHASE REQ. NO.	5. PR	1 OJECT NO	5). (If applicable)
0305				3-15-00116			. (
6. ISSUED BY	CODE	See Block 16C	7. AD	MINISTERED BY (If other than Item 6)	CODE	:	
1650 AR	3 RONMENTAL PROTECTION CH STREET LPHIA PA 19103-2029					<b>L</b>	
8. NAME AND	O ADDRESS OF CONTRACTOR (No., street	, county, State and ZIP Code)	(x) 9A	. AMENDMENT OF SOLICITATION NO.			
11107 St	OLOGIC INC UNSET HILLS ROAD SUIT VA 20190-5309	€ 400		DATED (SEE ITEM 11)	LNO.		
			L E	A. MODIFICATION OF CONTRACT/ORDER P-S3-07-05	. NO.		
			_	B. DATED (SEE ITEM 13)			
CODE 19	93942604	FACILITY CODE		06/28/2007			
		11. THIS ITEM ONLY APPLIES TO	AMEND	MENTS OF SOLICITATIONS			
THE PLAC virtue of this to the solici	E DESIGNATED FOR THE RECEIPT OF s amendment you desire to change an offe tation and this amendment, and is received	OFFERS PRIOR TO THE HOUR AND or already submitted, such change may d prior to the opening hour and date sp	DATE SF be made ecified.	ALURE OF YOUR ACKNOWLEDGEMENT TO ECIFIED MAY RESULT IN REJECTION OF by telegram or letter, provided each telegran	YOUR O	FFER. If b makes refe	y erence
12. ACCOUN See Sch	TING AND APPROPRIATION DATA (If red	quired) Ne	t Ind	crease:	\$8,00	0,000	.00
CHECK ONE	B. THE ABOVE NUMBERED CONTRAL appropriation date, etc.) SET FORTI  C. THIS SUPPLEMENTAL AGREEMEN  D. OTHER (Specify type of modification	CT/ORDER IS MODIFIED TO REFLEC IN ITEM 14, PURSUANT TO THE AU IT IS ENTERED INTO PURSUANT TO and authority)	T THE AI JTHORIT		es in payi	ng office,	24 6 11 25
X	B.2 work Assignments; B.4			Subc Pool; B.6 Limit of Fur  O copies to the issu			.24 & H.25
DUNS Num See Item Continu Except as pro	PTION OF AMENDMENT/MODIFICATION mber: 193942604 m 14 Continuation  ed pvided herein, all terms and conditions of the		including	solicitation/contract subject matter where fed	n full force	e and effec	
15A. NAME A	AND TITLE OF SIGNER (Type or print)			NAME AND TITLE OF CONTRACTING OF ffany Gillespie	FICER (7	Type or prir	nt)
15B. CONTR	ACTOR/OFFEROR	15C. DATE SIGNED		UNITED STATES OF AMERICA	<u>.</u>	. 10	SC. DATE SIGNED
	(Signature of person authorized to sign)			(Signature of Contracting Officer)	CTA	ARD FORM	WJ / 1 / /)
NICKLIZE AND OA	1 452 9070			V V	STANDA	ae(:  ト-(.) そ[\/	1.50 (REV £10-83) £

Previous edition unusable

Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION CHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE 0	)F
CONTINUATION SHEET	EP-S3-07-05/0305	2	5

NAME OF OFFEROR OR CONTRACTOR HYDROGEOLOGIC INC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Add Item 0067 as follows:				
067	Standard Chlorine of DE SSID: 03H6				8,000,000.0
	Site ID: DED041212473				0,000,000.
	Activity: OU3 Remedial Action				
	Dollar Amount: \$8,000,000				
	New or Ongoing: Ongoing				
	Contract Name and Number: Remedial Action				
	Contract (RAC), EP-S3-07-05 HGL				
	Task Order for the Contract: 060RARA03H6				
	Brief description of the activity being funded:				
	Construction of multi-layer geosynthetic liner				
	and soil cap with soil gas collection and				
	treatment system to address contaminated soil in				
	the former plant area (OU3).				
	BOC: Brad White 215-814-3217				
	Obligated Amount: \$8,000,000.00				
	Accounting Info:				
	15-T-3ASORH6-303DD2-2505-C001-153ASE1007-001 BFY:				
	15 Fund: T Budget Org: 3ASORH6 Program (PRC):				
	303DD2 Budget (BOC): 2505 Job #: 03H6RA03 Cost:				
	C001 DCN - Line ID: 153ASE1007-001				
	Funding Flag: Partial				
	Funded: \$8,000,000.00				
	,				
				1	
				[	
l					

## **Modification 305**

## **Item 14 Continuation**

- 1. The authority for this modification is Clause B.2, Work Assignments; B.4, Estimated Cost & Fixed Fee; B.5, Subcontracting Pool; B.6, Limitation of Funds Notice; H.24, Option for Increased Quantity Term Form Segment and H.25, Option for Increased Quantity Subcontracting Pool.
- 2. The purpose of this modification is to exercise two (2) term form option increments, three (3) subpool option increments, obligate funding and to issue Revision 4 to WA 060RARA03H6.
- 3. In accordance with Section H, paragraph H.24, "Option for Increased Quantity Term Form Segment", two (2) 10,000 direct labor hour options are hereby exercised.

In accordance with Section H, paragraph H.25, "Option for Increased Quantity – Subcontracting Pool, three (3) subpool options are hereby exercised: One (1) subcontracting pool @ \$\(^{\text{Exemption (b) (4)}}\) & two (2) subcontracting pools @ \$\(^{\text{Exemption (b) (4)}}\)

As a result thereof, Section B, Paragraph B.4, Estimated Cost and Fixed Fee (EP 52.216-190) & Paragraph B.5, Subcontracting Pool (Term Form Segment), are modified as follows:

	Estimated Cost Thru MOD 293	Increase by this Modification	Total Estimated Cost
(a) Term Form Segment			
Estimated Cost	LEszomo +	ion (h	\ / // \
Fixed Fee		tion (b	) (4)—
Total		L	
(b) Subcontracting Pool			
Estimated Cost	Trompt	-ion (h	\ / // \
Fixed Fee	[rxemb(	tion (b	)
Total			
(c) Total Contract (a) + (b)			
Estimated Cost	\$Exompt:	ion (b)	(1)
Fixed Fee	\$PYGIIIDC		
Total	\$44,898,954.00	\$15,157,482.00	\$60,056,436.00

4. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 304	Changes Under This MOD	Total Funding
Term Form Segment			
Estimated Cost	*Exemp	tion (h)	(4)
Fixed Fee	Tryemb.	CTOII (D)	(4)
Total	\$40,372,373.40	\$8,000,000.00	\$48,372,373.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC									
1. WORK ASSIGNMEN	T (WA) INFORMATION								
Project Name: Standard Cl	nlorine of DE – OU3	Contractor: HGL			WA No.:_	060RARA03H6			
Activity: Remedial Action	1	EPA Contract No.	EP-S3-07-0	)5	Revision l	No.: <u>4 (Four)</u>			
Date: 03/04/2015		Contractor Control	No			ion No.: 305 ing Officer Use Only)			
2. DESCRIPTION OF A	CTION				(				
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	_ WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP App WP Disapprova Final WP Appro Amendment to WP Approval . Approve change i scope, or budget . Approve addition:	Memorandum Details on scope, schedule Approval At to Final val nge in LOE, light Memorandum Details on scope, schedule Minor shift within (no change in \$/L Change WAM  X Set or revise ex limit (EL)		, budget, or in SOW LOE)	X_ Incremental Funding . Fund approved WPWA Closeout Notification . Notify contractor to initiate WA . closeout task . Revise EL after final invoiceOther			
3. BUDGET INFORMAT	ΓΙΟΝ								
Completion WA X	Term WA	Approved	Work Plan F	Budget	Expenditure Limits Not to Be Exceeded				
Total Funding Receive	ed (\$)	LOE (\$)* Term WAs Only		(\$)*	LOE Term WAs o	(\$)* nly			
Previous Total 7,00	00,000	<u>10,121</u> <u>14,576,110</u>		5000	7,000,000				
This Action 8,00	00.000	0	0 0		5121_	<u>7,576,110</u>			
New Total15,00	000,000	10,121 14,576,110		10,121					
Funding Category: Site-S	pecific	* Includes fees		* Includes fe	es				
Activity Code: RARA	_ S/SID: <u>03H6</u>								
4. WA COMPLETION I	DATE Current: 06-3	0-2017	Revis	ed:					
5. EPA COMMENTS:									
This amendment ful	ly funds HGL's Work	Plan and Cost Est	imate Re	vision 1 dated, A	August 29, 2	2014.			
6. APPROVALS		,							
Contractor Signatures:			EPA Sig	natures:					
Site Manager/Firm		Date	/s/ Brad Whit Work Ass Phone Nu		ger	03-04-2015 Date 215-814-3217			
Program Manager/Firm		Date	Proje	al Shabazz ect Officer ne Number		03-04-2015 Date 215-814-3281			
Approved As _X_ Ap Submitted Chang			J. W.	Con K S	llope	, @3/19//5 / Date			

AMENDMENT OF SOLICITATION/MODI	FICATION OF	CONTRACT		CONTRACT ID CODE	PAGE C	PF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIV	E DATE	4. REC	UISITION/PURCHASE REQ. NO.	5. PROJECT NO	). (If applicable)
0306	See Blo	ck 16C				
6. ISSUED BY CO			7. ADI	/INISTERED BY (If other than Item 6)	CODE	
REGION 3 US ENVIRONMENTAL PROTECTIO 1650 ARCH STREET PHILADELPHIA PA 19103-2029						
8. NAME AND ADDRESS OF CONTRACTOR (No., s	street, county, State an	nd ZIP Code)	(x) 9A	AMENDMENT OF SOLICITATION NO.		
HYDROGEOLOGIC INC			<u> </u>			
11107 SUNSET HILLS ROAD SU	ITE 400		9В	DATED (SEE ITEM 11)		
RESTON VA 20190-5309						
			x 10,	A. MODIFICATION OF CONTRACT/ORDER 2-S3-07-05	NO.	
			10	3. DATED (SEE ITEM 13)	<del> </del>	
CODE 193942604	FACILITY CO	DDE	o	6/28/2007		
	11. THIS IT	EM ONLY APPLIES TO A	MEND	MENTS OF SOLICITATIONS		
Items 8 and 15, and returning separate letter or telegram which includes a refer THE PLACE DESIGNATED FOR THE RECEIPT virtue of this amendment you desire to change an to the solicitation and this amendment, and is rece  12. ACCOUNTING AND APPROPRIATION DATA (i	ence to the solicitati OF OFFERS PRIO offer already subm eived prior to the op	on and amendment numb R TO THE HOUR AND Do itted, such change may be	ers. FA ATE SP e made	ECIFIED MAY RESULT IN REJECTION OF '	O BE RECEIVED A	AT Dy
See Schedule						
13. THIS ITEM ONLY APPLIES T	O MODIFICATION	OF CONTRACTS/ORDER	S. IT M	ODIFIES THE CONTRACT/ORDER NO. AS E	ESCRIBED IN ITE	M 14.
CHECK ONE A. THIS CHANGE ORDER IS ISSU ORDER NO. IN ITEM 10A.	ED PURSUANT TO	): (Specify authority) THE	CHANG	GES SET FORTH IN ITEM 14 ARE MADE IN	THE CONTRACT	
B. THE ABOVE NUMBERED CONT appropriation date, etc.) SET FC	RACT/ORDER IS I	MODIFIED TO REFLECT PURSUANT TO THE AUT	THE AL	MINISTRATIVE CHANGES (such as change OF FAR 43.103(b).	es in paying office,	
C. THIS SUPPLEMENTAL AGREEI	MENT IS ENTERED	) INTO PURSUANT TO A	UTHOR	ITY OF:		
D. OTHER (Specify type of modifica	ation and authority)					-
X B.2 Work Assignmen	nts					
E. IMPORTANT: Contractor Sis no	ot, is required	to sign this document and	d return	0 copies to the issu	ing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICAT	ION (Organized by	UCF section headings, in	cluding	solicitation/contract subject matter where fea	sible.)	
DUNS Number: 193942604				10 / 77 / 77	. 0165055	0.2242
The purpose of this modifi						
Revision 9 to Work Assignm	ent UZZRIC	JOUSH'S and Re	VISI	on 3 to work Assignmen	t 059KICO	1309.
Except as provided herein, all terms and conditions	of the document re	ferenced in Item 9A or 10	A, as he	retofore changed, remains unchanged and ir	n full force and effe	et.
15A. NAME AND TITLE OF SIGNER (Type or print)				NAME AND TITLE OF CONTRACTING OF		
			Ti	ffany Gillespie		
15B. CONTRACTOR/OFFEROR	•••	15C. DATE SIGNED		UNITED STATES OF AMERICA	$\overline{a}$	I6C. DATE SIGNED
			100	Lygary KSV	Low	02-26-15
(Signature of person authorized to sign) NSN 7540-01-152-8070		1		(Signature of Contracting Officer)	STANDARD FORI	M 30 (REV. 10-83)
Previous edition unusable				V	Prescribed by GS/	•

EP-S3-07-05/0306

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC									
1. WORK ASSIGNMENT (WA) INFORMATION									
Project Name: _Culpeper V Activity:RIFS/Oversight Date:03-23-2015 (Contracting Officer Use O	Contractor C	Contractor: <u>HGL</u> EPA Contract No	EP-S3-07	05		No.:13 (Thirteen)  fication No.:306			
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approd  — WP Disapproval  — Final WP Approv  — Amendment to Fi WP Approval  . Approve change in scope, or budget . Approve additional	Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM  LOE, Set or revise expenditure limit (EL)		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX_ Other Extend the Period of Performance			
3. BUDGET INFORMA	ΓΙΟΝ				1				
Completion WA Total Funding Receive		LOE (\$)*		Expen LOE Term WAs o	diture Limits Not to Be Exceeded (\$)* only				
Previous Total         0           This Action         0           New Total         0           Funding Category:         But	ilk Funding		0 0 136,700		1210 0 1210 * Includes fo	0 136,700			
Activity Code: RSBD S				10.01.001					
4. WA COMPLETION DATE Current: 12-31-2014 Revised: 12-31-2015  5. EPA COMMENTS:  This amendment extends the Period of Performance to 12/31/2015. Also, please change the WAM from Andrew Palestini to Bruce Rundell.									
6. APPROVALS	And Addition of								
Contractor Signatures: Site Manager/Firm Program Manager/Firm		Date Date	/s/ <u>Bru</u> Work A /s/ <u>Mik</u>	gnatures:  ce Rundell .ssignment Manager  al Shabazz .mental Engineer	]	03-23-2015 Date Phone Number (_) 03-23-2015 Date			
Approved As _X_ A	Approved With Not ges Approved	J. Signai	MGC ture of Cor	m/h/h	llepi	v Ø3-2ℓ-/5			

	EPA WORK ASS	SIGNMENT FORM	1 (WAF) FOR RA	AC	
1. WORK ASSIGNMEN	IT (WA) INFORMATION				
Project Name: Standard C Activity: RI/FS Date: 03-25-2015	Chlorine of Delaware, Inc.		S3-0705 WA No.:	Revision	No.: <u>9 (Nine)</u> Modification No.: <u>306</u>
(Contracting Officer Use C					
2. DESCRIPTION OF A	CTION				
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	— WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	d/or		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other
3. BUDGET INFORMA	TION			T	Value
Completion WA	Term WA	Approved Worl	Plan Budget	Expe	nditure Limits Not to Be Exceeded
Total Funding Receiv	red (\$)	LOE Term WAs Only	(\$)*	LOE Term WAs	(\$)* only
Previous Total			1,715,425	7300	1,715,425
This Action			35,000	0	0
New Total		7550 * Includes fees	1,750,425	7300 * Includes f	1,715,425 ees
Funding Category: Bull	k Funding	•			
Activity Code: RIFS S/	SID: <u>03H6</u>				
4. WA COMPLETION	DATE Current: 12-3	1-2015	Revised:		
contractor concuctopy of the work concur, this must this amendment a assignment. Spe	ars with the Fundi c assignment form st be noted on the adds 250 LOE to the ecifically:	ng and LOE hours, within 5 working o work assignment f e approved work pl	the contractor i ays after receip orm.  an budget to con	s require t. If the tinue act	th the contract. If the ed to return a signed e contractor does not tivities under this work
sediment, surface	ce water and biota	with current data	and risk screen	ing leve	ls. The findings shall his work assignment.
6. APPROVALS					
Contractor Signatures:		]	EPA Signatures:		
Site Manager/Firm			s/ <u>Brad White</u> Work Assignment Manager		03-25-2015 Date
Program Manager/Firm			s/ Mikal Shabazz invironmental Engineer		03-25-2015 Date
	Approved With Not	Signature	1. effery K of Contracting Officer.	Geller	Date 03.26-15

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC										
1. WORK ASSIGNMENT	(WA) INFORMATION		AND THE RESERVE OF THE PARTY OF							
Project Name: _ Dwyer = OU1 Co		ntractor: HGL	WA	WA No.: 059RICOE309						
		A Contract No. EP-S3-0	7-05 Rev	rision No.:	3 (Three)					
- 1111111111111111111111111111111111111		ntractor Control No.	Mo							
			(C	(Contracting Officer Use Only)						
2. DESCRIPTION OF A	CTION	1 111								
_ New WA	WA Amendment	Partial WP Approval	X Technical	Direction	Incremental Funding					
(need WP for the WA)	(need revised WP and/o	r WP Disapproval	Memorandum . Fund approved W		. Fund approved WP					
. Attach SOW	cost estimate)	Final WP Approval	. Details on scope, budget,		WA Closeout Notification					
including schedule	. Change in LOE or	Amendment to Final	or schedule	or schedule . Notify						
. Designate WAM	scope by task	WP Approval	. Minor shift withi	Minor shift within SOW WA closeout task						
	. Add additional tasks or	. Approve change in LOE	(no change in s	/LOE)	. Revise EL after final invoice					
	funds for increased	scope, or budget	. Change WAM		Other					
	activity	. Approve additional tasks	Set or revise	expenditure						
		7,7	limit (EL)	,						
3 BUDGET INFORMAT	ION.									
BUDGET INFORMATION  Completion WA X Term WA Approved Work Plan Budget Expenditure Limits Not to Be Exceeded  Expenditure Limits Not to Be Exceeded										
	unding Received (\$)	LOE	(\$)*	LOE	(\$)*					
Total 1	unumg Neceived (4)	Term WAs Or			Term WAs only					
Previous Total	Burling Tabl		2,331.169	5100	·					
			0		0					
This Action		0								
New Total		10,887	2,331,169	5100						
		* Includes fees		* Includes	lees					
Funding Category: Bu	: .									
Activity Code: RICO	S/SID: <u>E309</u>		•							
4 WA COMPLETION D	ATE	12.20.2016	Bayland							
4. WA COMPLETION D	ATE Current:	12-30-2016	Revised:							
5. EPA COMMENTS:										
This work assignment amendment directs HGL to procure laboratory services as described in the Dwyer										
					March 2015 as needed					
under Tier IV of th	ne Contract Laborat	ory Program. Expect	ed analyses inclu	de VOCs,	SVOCs, SVOCs					
(filtered), 1,4-dioxane, Total Metals, Dissolved Metals (filtered), Hex. Chrome, Perchlorate, Chlorate,										
Explosives, PCBs, PCBs (filtered), Pesticides, Pesticides (filtered), pH, Redox, TOC, Grain Size. Additional										
analyses should be approved by the EPA RPM for the Dwyer NPL Site.										
,	,	•								
6. APPROVALS										
Contractor Signatures:		Rot	pert Wallace		03-23-2015					
		_	rk Assignment Manager		Date					
Site Manager/Firm			al Shabazz	_	03-23-2015					
			ject Officer		Date					
Program Manager/Firm		Date	,		<del></del>					
		<u></u>	1/	1 1 1 1	On her					
Approved AsX Approved With Not										
Submitted		pproved	Signature of Cont	r Date						

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				CONTRACT ID CODE		PAGE OF PAGES				
2 AMENDME	NT/MODIFICATION NO	3. EFFECTIVE DATE	4 REC	UISITION/PURCHASE REQ. NO.	5 PRO	JECT NO	5 ). (If applicable)			
			See Schedule			OJECT NO. (II applicable)				
0307 6. ISSUED BY	CODE	See Block 16C		7. ADMINISTERED BY (If other than Item 6) CODE						
1650 AR	3 RONMENTAL PROTECTION CH STREET LPHIA PA 19103-2029					<u> </u>				
8. NAME AND	ADDRESS OF CONTRACTOR (No., street)	county, State and ZIP Code)	(x) <sup>9A</sup>	AMENDMENT OF SOLICITATION NO.						
HYDROGEOLOGIC INC 11107 SUNSET HILLS ROAD SUITE 400 RESTON VA 20190-5309				9B. DATED (SEE ITEM 11)  10A. MODIFICATION OF CONTRACT/ORDER NO.						
			^EI	?-\$3-07-05						
CODE 10	22040604	FACILITY CODE		3. DATED (SEE ITEM 13)						
	3942604			6/28/2007						
	numbered solicitation is amended as set fo	11. THIS ITEM ONLY APPLIES TO			tended,					
separate let THE PLACE virtue of this to the solicit	ter or telegram which includes a reference E DESIGNATED FOR THE RECEIPT OF C s amendment you desire to change an offer tation and this amendment, and is received	to the solicitation and amendment nu DFFERS PRIOR TO THE HOUR AND already submitted, such change may prior to the opening hour and date sp	mbers. FA DATE SPI be made in the becified.	eipt of this amendment on each copy of the ILURE OF YOUR ACKNOWLEDGEMENT T ECIFIED MAY RESULT IN REJECTION OF by telegram or letter, provided each telegran	O BE REC YOUR OF	EIVED A FER. If by nakes refe	T y y errence			
See Sch	FING AND APPROPRIATION DATA (If req	uirea) Ne	et Inc	rease:	\$2,900	0,000	.00			
CHECK ONE	B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMEN	T/ORDER IS MODIFIED TO REFLEC IN ITEM 14, PURSUANT TO THE AI T IS ENTERED INTO PURSUANT TO	CT THE AD UTHORITY	SES SET FORTH IN ITEM 14 ARE MADE IN MINISTRATIVE CHANGES (such as chang OF FAR 43.103(b).						
v	D. OTHER (Specify type of modification	••	Dun da	Notrice						
X	B.2 Work Assignment, T: Contractor	is required to sign this document		0 copies to the issu	ine office					
DUNS Nun	TION OF AMENDMENT/MODIFICATION (			colicitation/contract subject matter where fea						
		e document referenced in Item 9A or	16A.	retofore changed, remains unchanged and i NAME AND TITLE OF CONTRACTING OF Ffany Gillespie						
15B. CONTRA	CTOR/OFFEROR	15C. DATE SIGNED	1	UNITED STATES OF AMERICA	)	16	SC. DATE SIGNED			
	(Signature of person authorized to sign)		15	(Signature of Contracting Officer)	HAN	-	ピナーピメーク			

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION CUEFT	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE 0	F
CONTINUATION SHEET	EP-S3-07-05/0307	2	4

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	1 1	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Add Item 0068 as follows:				
0068	Standard Chlorine of DE SSID: 03H6 Site ID: DED041212473				2,400,000.0
	Activity: OU3 Remedial Action				
	Dollar Amount: \$2,400,000				
	New or Ongoing: Ongoing				
	Contract Name and Number: Remedial Action				
	Contract (RAC), EP-S3-07-05 HGL		1		
	Task Order for the Contract: 060RARA03H6				
	Brief description of the activity being funded: Construction of multi-layer geosynthetic liner				
	and soil cap with soil gas collection and				
	treatment system to address contaminated soil in				
	the former plant area (OU3).				
	BOC: Brad White 215-814-3217				
	Obligated Amount: \$2,400,000.00				
	Requisition No: PR-R3-15-00208				
	Accounting Info:				
	15-T-3ASORH6-303DD2-2505-C001-153ASE1009-001 BFY:	l			
	15 Fund: T Budget Org: 3ASORH6 Program (PRC):				
	303DD2 Budget (BOC): 2505 Job #: 03H6RA03 Cost:				
	C001 DCN - Line ID: 153ASE1009-001				
	Funding Flag: Partial				
	Funded: \$2,400,000.00				
	Add Item 0069 as follows:				
0069	HydroGeoLogic(HGL)Bulk funds				500,000.0
	Bulk fund the contract (EP-S3-07-05) for				300,000.0
	Site-specific work				
	Amount- \$500,000				
	POC: Claudette Reed and Mikal Shabazz				
	Obligated Amount: \$500,000.00				
	Requisition No: PR-R3-15-00204				
	Accounting Info:				
	15-T-3AS0P-303DD2-2505-C076-153ASB1012-001 BFY:				
	15 Fund: T Budget Org: 3ASOP Program (PRC):				
	303DD2 Budget (BOC): 2505 Job #: 03WQWQ00 Cost: C076 DCN - Line ID: 153ASB1012-001				
	Funding Flag: Partial				
	Funded: \$500,000.00				
•					
		1	ıİ	ŀ	
	*			l	

### **Item 14 Continuation**

- 1. The purpose of this modification is to obligate funding, issue Revision 5 to Work Assignment 060RARA03H6 and Revision 3 to Work Assignment 061TATAA3WY.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 305	Changes Under MOD	This	Total Funding
Term Form Segment				
Estimated Cost	\$Fzomnt	-ion /	/ Ъ	\ (1)
Fixed Fee	Exempt	$^{-}$ TOII (	, D	) (4) -
Total	\$48,372,373.40	\$2,900,000.00	o	\$51,272,373.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC									
1. WORK ASSIGNMEN	T (WA) INFORMATION								
Project Name: <u>Standard Chlorine of DE – OU3</u> Activity: <u>Remedial Action</u> Date: <u>03/30/2015</u>		Contractor: HGL  EPA Contract No. EP-S3-07-05  Contractor Control No			WA No.: 060RARA03H6  Revision No.: 5 (Five)  Modification No.: 307 (Contracting Officer Use Only)				
2. DESCRIPTION OF A	CTION								
New WA (need WP for the WA) Attach SOW including schedule Designate WAM	X WA Amendment (need revised WP and/or cost estimate) Change in LOE or scope by task Add additional tasks or funds for increased activity	WP Disapproval Final WP Approval Amendment to Final WP Approval Approve change in LOE,		Technical Direction Memorandum . Details on scope, budget, or schedule . Minor shift within SOW (no change in \$/LOE) . Change WAM Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other			
3. BUDGET INFORMAT	ΓΙΟΝ				······································	· · · · · · · · · · · · · · · · · · ·			
Completion WA X_ Term WA  Total Funding Received (\$)  Previous Total15,000,000		Approved V LOE Term WAs Only	Work Plan I <u>14,576</u>	(\$)*	Expen  LOE  Term WAs o	•			
		0			0 10,121 * Includes fe	14,576,110			
4. WA COMPLETION I		30-2017	Revis	ed:					
5. EPA COMMENTS:  This amendment adds funding and the contractor is requested to submit a revised letter workplan and cost estimate to address increased costs and scope concerns, including a reduced level of effort for the first year operation and maintenance due to the increased timeframe for construction — Please reference Subcontract Consent letter, dated 02/24/15.									
6. APPROVALS					<del></del>				
Contractor Signatures:			EPA Sig	gnatures:					
Site Manager/Firm Program Manager/Firm		Date Date	Pho /s <u>/ Mik</u> Proj	k Assignment Manaş ne Number al Shabazz ect Officer	ger	03-30-2015 Date 215-814-3217 03-30-2015 Date 215-814-3281			
	_ Approved As X Approved With _ Not Fifteeny K/Fillipse 04-02-15								

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMENT (WA) INFORMATION								
Project Name: <u>Baghurst D</u> Activity: <u>Remedial Action</u> Date: <u>04/01/2015</u>		Contractor: HGL  EPA Contract No. L  Contractor Control N	EP-S3-07-0	5	Revision l	061TATAA3WY  No.:Three (3)  tion No.: 307  ting Officer Use Only)		
2. DESCRIPTION OF A	CTION							
New WA Attach SOW including schedule Designate WAM	_ WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval Unilateral WP Approval Unilateral Amenor Final WP Approval . Approve change in scope, or budget . Approve additional	Memorandum Details on scope, budg schedule Minor shift within SO (no change in \$/LOE) Change WAM  LOE, Set or revise expendit limit (EL)		budget, or n SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other Extend the Period of Performance		
3. BUDGET INFORMA	ΓΙΟΝ							
Completion WA _X_ Term WA  Total Funding Received (\$)		Approved Work Plan Buc LOE (3 Term WAs Only		udget (\$)*	Expen LOE Term WAs o	diture Limits Not to Be Exceeded (\$)* only		
Previous Total	0	874	8	<u>35,400</u>	874_	_85,400		
This Action	0	0	0		0	0		
New Total  Funding Category: Bulk  Activity Code: TATA	Funding	* Includes fees		<u>85,400</u>	* Includes fe	<u>85,400</u> pees		
4. WA COMPLETION I		31-2015	Revise	ed: 04-30-20	015			
	nt amendment extends QuIS database which re					ddress some minor technical e personnel and HGL		
6. APPROVALS								
Contractor Signatures:		:	EPA Sig	natures:				
Site Manager/Firm Date			/s/ Charlie Root 04-01-2015 Work Assignment Manager Date Phone Number 215-814-3193					
Program Manager/Firm Date			/s/ Mikal Shabazz 04-01-2015 Project Officer Date Phone Number 215-814-3281					
X Approved As A Submitted Chang	pproved With Not es Approved		JU/ Signature of	Contracting Office	llopie r,	04-01-15 Date		

AMENDM	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE		PAGE O	_
2. AMENDM	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. 1	REQUISITION/PURCHASE REQ. NO.	5. PF	1 OJECT NO	). (If applicable)
0308		See Block 16C					
6. ISSUED B	Y CODE	R3	7.	ADMINISTERED BY (II other than Item 6)	CODI	E	
1650 A	3 IRONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	AGENCY					
8. NAME AN	D ADDRESS OF CONTRACTOR (No., street	county. State and ZIP Code)	(1)	9A. AMENDMENT OF SOLICITATION NO.	<u> </u>		
		, reality, close and all decay	(x)	St. / menoment or obelon months.			
	OLOGIC INC	2 400		9B, DATED (SEE ITEM 11)			
	UNSET HILLS ROAD SUITE VA 20190-5309			SO. DATED (SEE TEM TI)			
			L	MODIFICATION OF CONTRACTIONES			
			х	10A. MODIFICATION OF CONTRACT/ORDER EP-S3-07-05	NO.		
				10B. DATED (SEE ITEM 13)			
CODE 1	93942604	FACILITY CODE		06/28/2007			
		11. THIS ITEM ONLY APPLIES TO A	ME	NOMENTS OF SOLICITATIONS			
THE PLAC virtue of th to the solic	DE DESIGNATED FOR THE RECEIPT OF ( is amendment you desire to change an offe  istation and this amendment, and is received  ITING AND APPROPRIATION DATA (If required u.)	OFFERS PRIOR TO THE HOUR AND Dir already submitted, such change may bit prior to the opening hour and date spec uired)	ATE e ma ified	FAILURE OF YOUR ACKNOWLEDGEMENT SPECIFIED MAY RESULT IN REJECTION OF ide by telegram or letter, provided each telegran.  T MODIFIES THE CONTRACT/ORDER NO. AS	YOUR On or letter	FFER. If b	y srence
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED P ORDER NO. IN ITEM 10A.	URSUANT TO: (Specify authority) THE	CH	ANGES SET FORTH IN ITEM 14 ARE MADE II	THE CO	ONTRACT	
	B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH	T/ORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AUT	THE	ADMINISTRATIVE CHANGES (such as chang RITY OF FAR 43.103(b).	es in pay	ing office,	
	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT TO A	UTH	IORITY OF:		······	
X:	Mutual Agreement						
·	D. OTHER (Specify type of modification	and authority)					
:	<u> </u>	····				<del></del>	
E. IMPORTAN		is required to sign this document and				<del>}</del> .	······································
14. DESCRIF DUNS Nu		Organized by UCF section headings, inc	cludi	ing solicitation/contract subject matter where fe	ısible.)		
See Ite	m 14 Continuation						•
		•					
	•						
	ovided herein, all terms and conditions of the ND TITLE OF SIGNER (Type or print)	e document referenced in Item 9A or 10/		heretofore changed, remains unchanged and i			
Jan k	Kool   Program Mana	iden.	T	iffany Gillespie			
	ACTOR/OFFEROR	15C, DATE/SIGNED		6B. UNITED STATES OF AMERICA		110	6C. DATE SIGNED
	4	148/2015		Juliany 11. Fal	Ven	100	MI MG 1-
	(Signature of person authorized to sign)		_	(Signafurp of Contracting Officer)			WT-V1-15
NSN 7540-01 Previous editi					Prescrib	ARD FORM ed by GSA CFR) 53.2	
					1111/140		

EP-S3-07-05/0308

### **Item 14 Continuation**

- 1. The purpose of this modification is to add one (1) unexercised \$5,325,000 subcontracting pool increment to the Option Period.
- 2. In accordance with Section H, paragraph H.25, "Option for Increased Quantity Subcontracting Pool, one (1) unexercised subpool option @ \$5,325,000 is hereby added to the Option Period.

As a result thereof, Section B, Paragraph B.4, Estimated Cost and Fixed Fee (EP 52.216-190) is modified as follows:

	Estimated Cost Thru MOD 305	Increase by this Modification	Total Estimated Cost
(a) Term Form Segment*			Exemption (
Estimated Cost	\$\bar{\sigma} \square \text{szom}	ption (	(h) (/l)
Fixed Fee	<u> </u>	Бстоп (	(D)
Total	\$		E
(b) Subcontracting Pool			N-1111-1111-1111-1111-1111-1111-1111-1
Estimated Cost	\$Eszom	ption (	(b) (1)
Fixed Fee	EXeIII	ЪСТОП	(D) $(4)$
Total Total	\$		
(c) Total Contract (a) + (b)			
Estimated Cost	\$:Fyomr	tion (b)	· (4) -
Fixed Fee	TIV CILIT	$\frac{1}{1}$	\
Total	\$60,056,436.00	\$5,324,940.00	\$65,381,376.00

<sup>\*</sup>Administrative correction to the Total Estimated Cost for (a) Term Form Segment.

Paragraph H.25 (a) (2) is changed to read: Option Period 1. The subcontract pool will be structured with Exemption (b) (4) option increments and Exemption (b) (4) increment for the option period. The government may issue a total of 5 orders to increase the subpool ceiling during the option period of the contract. The total Subcontracting Pool dollars provided during the Option Period including all options shall not exceed \$\frac{\text{Exemption (b) (4)}}{\text{Exemption (b) (4)}}.

- 3. The net change of the total estimated cost of this contract is 0.00 An identical subpool option in the Base Period, for exemption (b) (4) was not exercised.
- 4. In consideration of the terms agreed herein as complete and equitable for the changes identified in this modification, the Contractor hereby releases the Government from any and all liability under this contract for further equitable adjustment attributable to such facts or

circumstances giving rise to the changes identified in this modification.

5. All other terms and conditions remain unchanged.

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE		1	
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	QUISITION/PURCHASE REQ. NO.	5. PR(	DJECT NO	. (If applicable)
0309	See Block 16C					
6. ISSUED BY CODE	R3	7. AI	DMINISTERED BY (If other than Item 6)	CODE	1	
REGION 3 US ENVIRONMENTAL PROTECTION 1650 ARCH STREET PHILADELPHIA PA 19103-2029	AGENCY				<b>I</b>	
8. NAME AND ADDRESS OF CONTRACTOR (No., street	, county, State and ZIP Code)	(x) 9.	A. AMENDMENT OF SOLICITATION NO.			
HYDROGEOLOGIC INC 11107 SUNSET HILLS ROAD SUITH RESTON VA 20190-5309	E 400	· 11	B. DATED (SEE ITEM 11)  DA. MODIFICATION OF CONTRACT/ORDER  1P - S3 - 07 - 05	NO.		
			DB. DATED (SEE ITEM 13)			
CODE 193942604	FACILITY CODE	_	06/28/2007			
	11. THIS ITEM ONLY APPLIES TO		•			
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF 0 virtue of this amendment you desire to change an offer to the solicitation and this amendment, and is received 12. ACCOUNTING AND APPROPRIATION DATA (If req See Schedule	OFFERS PRIOR TO THE HOUR AND I r already submitted, such change may I I prior to the opening hour and date spe uired)	DATE SI be made ecified.	PECIFIED MAY RESULT IN REJECTION OF by telegram or letter, provided each telegram	YOUR OF	FER. If by nakes refer	rence
13. THIS ITEM ONLY APPLIES TO M	ODIFICATION OF CONTRACTS/ORDE	RS. IT I	MODIFIES THE CONTRACT/ORDER NO. AS D	ESCRIBE	D IN ITEM	14.
A. THIS CHANGE ORDER IS ISSUED FORDER NO. IN ITEM 10A.	'URSUANT TO: (Specify authority) TH	IE CHAN	IGES SET FORTH IN ITEM 14 ARE MADE IN	THE CON	NTRACT	
B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH	T/ORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AU	T THE A ITHORIT	DMINISTRATIVE CHANGES (such as change Y OF FAR 43.103(b).	s in payin	ıg office,	
C. THIS SUPPLEMENTAL AGREEMEN	FIS ENTERED INTO PURSUANT TO 7	AUTHO	RITY OF:			
D. OTHER (Specify type of modification	and authority)					
X B.2, Work Assignment	S					
E. IMPORTANT: Contractor Sis not,	is required to sign this document ar	nd returr	copies to the issui	ing office.		
14. DESCRIPTION OF AMENDMENT/MODIFICATION ( DUNS Number: 193942604	Organized by UCF section headings, in	including	solicitation/contract subject matter where feat	sible.)		
The purpose of this modificat Revision 15 to Work Assignmen		visio	on 12 to Work Assignmen	t 030	ROBEO:	3EQ and
Event on provided berein all terms and anadillars of the	a document referenced in New OA 41	04 a- t	protofore changed sometime with a second	full fa	and effe	
Except as provided herein, all terms and conditions of the ISA. NAME AND TITLE OF SIGNER (Type or print)	; accument referenced in Item 9A or 10		eretofore changed, remains unchanged and in .  NAME AND TITLE OF CONTRACTING OFF		~~~~	)
		ŀ	ffany Gillespie		, <i>p-my</i>	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B	UNITED STATES OF AMERICA	Die.	160	C. DATE SIGNED
(Signature of person authorized to sign)			(Signature of Contracting Officer)	7		-1 45 13
USN 7540-01-152-8070			AMP*	STANDAR	KD FORM :	30 (REV. 10-83)

	EPA WORK A	ASSIGNMEN	T FO	RM (WAF	) FOR F	RAC	
1. WORK ASSIGNMENT	Γ (WA) INFORMATION						
	al Chemical  Contractor (	Contractor: HGL  EPA Contract No. EP-S3-07-09  Control No.					
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Final WP Approval  X Amendment to Final  WP Approval		Technical Direction Memorandum  Details on scope, budget, or schedule  Minor shift within SOW (no change in \$/LOE)  Change WAM X Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate    WA closeout task . Revise EL after final invoiceOther	
3. BUDGET INFORMAT	ION						
Completion WAX Term WA  Total Funding Received (\$)		Approved Work Plan I LOE Term WAs Only		Budget Expenditu (\$)* LOE Term WAs of		ture Limits Not to Be Exceeded (\$)* only	
Previous Total This Action New Total  Funding Category:E  Activity Code:ROBE				392,451 2770 0 22 392,451 2999 * Includes		<u>)                                    </u>	392,451 O 392,451
4. WA COMPLETION DA	ATE Current:	06-30-2015		Revis	sed:		
5. EPA COMMENTS:  This work assignment amendment adds LOE hours to finish the following work that remains uncompleted at present:  1) Task 08 Review of PRP submittals; 2) Task 10 Technical Meeting Support, and; 3) Task 11 WA Close Out  For the WA, it is estimate that approximately 50% of the Task 08 and Task 09 work remains to be completed, and 100% of the Task 11 work remains to be completed.							
6. APPROVALS							
Contractor Signatures:  Site Manager/Firm		 Date	EPA Sig  Mitch C  Work Ass			Date	04-14-2015
Program Manager/Firm		 Date	<u>Mikal S</u> Environm	habazz ental Engineer		Date	04-14-2015
X Approved As Approved With Not Juffany Khiller Signature of Contracting Officer Date							

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
1. WORK ASSIGNMENT (WA) INFORMATION  Project Name: Peck Iron and Metal  Activity: RIFS  Date: 04-22-2015  2. DESCRIPTION OF ACTION  New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM  WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity		Contractor:HGL EPA Contract NoEP-S Contractor Control No  Partial WP Appro WP Disapproval Final WP ApproX Amendment to WP Approval Approve change in	3-0705 oval val	Technical Direction Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM X Set or revise expenditure		5 (Fifteen) : 309	
		scope, or budget . Approve additiona		limit (EL)	<u>.</u>		
3. BUDGET INFORMA	rion						
Completion WA		Approved Work Plan B		_	-	diture Limits Not to Be Exceeded	
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs o	(\$)* only	
Previous Total		<u>11,173</u> <u>2,108,7</u>		<u>08,753</u>	7,090	1,274,000	
This Action		0		25,338_	0	196,000	
New Total		11,173 * Includes fees	11,173 2,134 cludes fees				
Funding Category: Bul	-						
Activity Code: RICO							
4. WA COMPLETION D	ATE Current: 12-	31-2016	Revis	ed:			
5. EPA COMMENTS:  This amendment adds \$25,338 for Tier IV lab procurement field events 4 & 5 and increases the expenditure funding limit to allow the contractor to continue with previously approved tasks.							
6. APPROVALS						7000	
Contractor Signatures:			EPA Sig	gnatures:			
Site Manager/Firm Date			ra Rossi ssignment Manager	P	04-22-2015 Date Phone Number <u>Ext. 4-3228</u>		
Program Manager/Firm Dat		Date		al Shabazz nmental Engineer	P	04-22-2015	
Approved As _X A Submitted Change	pproved With Not s Approved	Signa	Jy ature of Co	farry M. L. Intracting Officer,	uller	09-23-15- Date	

AMENDME	NT OF SOLICITATION	ON/MODIFIC	ATION OF C	ONTRACT		CONTRACT ID CODE		PAGE (	OF PAGES
2. AMENDME	NT/MODIFICATION NO.		3. EFFECTIVE	DATE	4. R	EQUISITION/PURCHASE REQ. NO.	5. PRC		O. (If applicable)
0310			See Bloo	ck 16C					
6. ISSUED BY	7	CODE	R3		7.7	ADMINISTERED BY (If other than Item 6)	CODE		
1650 AR	3 RONMENTAL PRO CH STREET LPHIA PA 1910		AGENCY						
8. NAME AND	ADDRESS OF CONTRAC	CTOR (No., street	t, county, State and	ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.	,		
HYDROGEC	OLOGIC INC	•							
11107 SU	JNSET HILLS RO JA 20190-5309	DAD SUIT	E 400			9B. DATED ( <i>SEE ITEM 11)</i>			
					х	10A. MODIFICATION OF CONTRACT/ORDER N EP-S3-07-05	Ö.		
						10B. DATED (SEE ITEM 13)			
CODE 19	3942604		FACILITY COL	DE		06/28/2007			
	-05 11 00 1		11. THIS ITE	M ONLY APPLIES TO A	MEN	IDMENTS OF SOLICITATIONS			
separate let THE PLACE virtue of this to the solicit	E DESIGNATED FOR THE	ides a reference RECEIPT OF change an offe i, and is receive	to the solicitation OFFERS PRIOR or already submit of prior to the ope	n and amendment numb TO THE HOUR AND D ted, such change may b	ers. ATE e ma	receipt of this amendment on each copy of the of FAILURE OF YOUR ACKNOWLEDGEMENT TO SPECIFIED MAY RESULT IN REJECTION OF You do by telegram or letter, provided each telegram or letter.	BE RE	CEIVED FER. If	AT by
See Sch			. ,					_	
CHECK ONE	,	RED CONTRA (c.) SET FORTI	CT/ORDER IS M I IN ITEM 14, PU	ODIFIED TO REFLECT JRSUANT TO THE AUT	THE	ANGES SET FORTH IN ITEM 14 ARE MADE IN T ADMINISTRATIVE CHANGES (such as changes BITY OF FAR 43.103(b). ORITY OF:			
	D. OTHER (Specify type	of modification	and authority)						
Х	B.2, Work As								
E. IMPORTAN		X is not.		o sign this document an	d ret	urn copies to the issuir	a office		
14. DESCRIP	TION OF AMENDMENT/Number: 193942	MODIFICATION 604	(Organized by L	ICF section headings, in	cludi	ion 17 to Work Assignment	ble.)		003DR.
	ovided herein, all terms and		ne document refe	erenced in Item 9A or 10		: heretofore changed, remains unchanged and in 6A. NAME AND TITLE OF CONTRACTING OFF			
IDA. NAME A	HAD TITLE OF SIGNER (1	уре от рппт)					IOLK (1	ype u b	misy
					r	iffany Gillespie			
15B. CONTRA	ACTOR/OFFEROR	and to ciars		15C. DATE SIGNED	1	6B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	P	J	16C. DATE SIGNED
	(Signature of person authorize	ou to signj		I		( Cognision of Contracting Citicol)	f	1	

	EPA WORK ASS	SIGNMENT FO	RM (W	AF) FOR RA	AC		
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: <u>Chem-Fab OU 1</u> Activity: <u>RIFS</u>		Contractor: HGL EPA Contract No.	EP-S3-07-	05	Revision	052RICO03DRNo.:17 (Seventeen)	
Date: <u>05/07/2015</u>		Contractor Control	No			ttion No.: <u>310</u> tting Officer Use Only)	
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	_ WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Appr WP Disapproval Final WP Appro X Amendment to WP Approval . Approve change ir scope, or budget . Approve additional	Memorandum Details on scope, budge schedule Minor shift within SOV (no change in \$/LOE) Change WAM  Memorandum Memorandum  Change within SOV (no change in \$/LOE) Change WAM  Min LOE,  X Set or revise expendimit (EL)		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX Other Extend Period of Performance	
3. BUDGET INFORMA	TION						
Completion WA _X_ Total Funding Receiv		Approved V LOE Term WAs Only	Work Plan I	Plan Budget Expend  (\$)*  LOE  Term WAs or		nditure Limits Not to Be Exceeded (\$)* only	
Previous Total		4,286	_	866,133	4,0	841,304	
This Action	<del></del>	1,395		374,798	1,3	<u>374.798</u>	
New Total  Funding Category: Bulk	Funding	* Includes fees		1,240,931			
Activity Code: RIFS	S/SID: <u>03DR</u>						
4. WA COMPLETION I	DATE Current: 06-	30-2015	Revis	sed: <u>06-30-2016</u>	<u> </u>	***	
5. EPA COMMENTS:  This amendment approves HGL's Work Plan and Cost Estimate, Revision 1, dated May 1, 2015 and extends the POP to 6/30/2016.							
6. APPROVALS			_				
Contractor Signatures:			EPA Sig	gnatures:			
Site Manager/Firm		Date		Ngo k Assignment Mana one Number	ger	05-07-2015 Date 215-814-3187	
Program Manager/Firm	gram Manager/Firm Date		/s/ Mikal Shabazz Project Officer Phone Number		05-07-2015 Date 215-814-3281		
X Approved As Ap Submitted Chang	pproved With Not ges Approved	-	Signature	of Contracting Office	llape r,	05/07/15 Date	

AMENDM	ENT OF SOLICITATION/MODIF	ICATION OF CO	ONTRACT		1. CONTRACT ID CODE	1	PAGE OF	
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE	DATE 4	4. REQ	UISITION/PURCHASE REQ. NO.	5. PRO	1 DJECT NO	5 . (If applicable)
0311		See Bloc						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6. ISSUED B	Y COD			7. ADN	MINISTERED BY (If other than Item 6)	CODE	T	
1650 AF	3 IRONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029							
8. NAME AN	D ADDRESS OF CONTRACTOR (No., str	eet, county, State and	ZIP Code) (	x) 9A.	AMENDMENT OF SOLICITATION NO.			
11107 S	OLOGIC INC UNSET HILLS ROAD SUI	TE 400			DATED (SEE ITEM 11)			
RESTON	VA 20190-5309		1					
			2	X E E	A. MODIFICATION OF CONTRACT/ORDER N P=S3-07-05	Ю.		
				108	B. DATED (SEE ITEM 13)			
CODE 1	93942604	FACILITY COD	PE	0	6/28/2007			
	numbered solicitation is amended as se				ENTS OF SOLICITATIONS		☐is not e	Antalymature
separate le THE PLAC virtue of th to the solic	etter or telegram which includes a referer CE DESIGNATED FOR THE RECEIPT O	nce to the solicitation F OFFERS PRIOR offer already submitt wed prior to the open	n and amendment numbe TO THE HOUR AND DA ed, such change may be	rs. FA TE SPI made I	eipt of this amendment on each copy of the of ILURE OF YOUR ACKNOWLEDGEMENT TO ECIFIED MAY RESULT IN REJECTION OF YO by telegram or letter, provided each telegram o	BE REC	CEIVED AT	T
See Sch	nedule							
	13. THIS ITEM ONLY APPLIES TO	MODIFICATION O	F CONTRACTS/ORDERS	i. IT MO	ODIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBE	ED IN ITEM	14.
CHECK ONE	A. THIS CHANGE ORDER IS ISSUE ORDER NO. IN ITEM 10A.	D PURSUANT TO:	(Specify authority) THE (	CHANG	SES SET FORTH IN ITEM 14 ARE MADE IN T	HE CO	NTRACT	And Add to the And
	B. THE ABOVE NUMBERED CONTR appropriation date, etc.) SET FOR				MINISTRATIVE CHANGES (such as changes OF FAR 43.103(b).	in payii	ng office,	
	D. OTHER (Specify type of modificati	•						
X	B.2, Work Assignmen	nts						
E. IMPORTA	NT: Contractor X is not,	is required to	o sign this document and	return	copies to the issuin	g office.		-
DUNS Nu	mber: 193942604		-	_	colicitation/contract subject matter where feasi			
					n 13 to Work Assignment			
				.on	6 to Work Assignment 06	URAF	KAU3H6	and
Revisio	on 3 to Work Assignme	ent 063TATA	AU3W6.					
	ovided herein, all terms and conditions o AND TITLE OF SIGNER (Type or print)	f the document refe	renced in Item 9A or 10A		etofore changed, remains unchanged and in f NAME_AND TITLE OF CONTRACTING OFFI			
. Or t. 14r tiving /	The of Groners (Type of plint)					S (1	,,co or print	y
APP COLUM	MOTOR/OFFEROR		LIEO BATE OLOVER		fany Gillespie		——————————————————————————————————————	O DATE CIONES
15B, CONTR	RACTOR/OFFEROR		15C. DATE SIGNED	16B.	united states of america	DPI	ا رو	©5-21-/5
	(Signature of person authorized to sign)			1	[/ [] (Signaluré of Contracting Officer)	7		- , ,

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	r (WA) INFORMATION							
Activity: Technic Date: 05-21-201	Project Name: Raymark Contractor: HGL WA No.: 031TATA0378  Activity: Technical Assistance EPA Contract No. EPS30705 Revision No.: 13 (Thirteen)  Date: 05-21-2015 Contractor Control No. Modification No.: 311							
(Contracting Offic	er Use Only)							
2. DESCRIPTION OF  New WA (need WP for the WA) .Attach SOW including schedule .Designate Contracting Officer Representative (COR)	WA Amendment(need revised WP and/or cost estimate) .Change in LOE or     scope by task .Add additional     tasks or funds     for increased     activity	Partial WP AppWP DisapprovalFinal WP ApprovalX Amendment to WP Approval .Approve change LOE, scope, o budget .Approve addition	oval Final in	Technical I Memorandum .Details on budget, or .Minor shift SOW (no change \$/LOE) .Change WAMX Set or receptions	scope, schedule within in	Incremental Funding . Fund approved WP WA Closeout Notification .Notify contractor to    initiate WA    closeout task .Revise EL after    final invoice    X Other Extend Period of Performance		
3. BUDGET INFORMA	TION							
Completion WA		Approved Work Plan Budget  LOE (\$)* Term WAs Only		-	Expenditure Limits Not to Be Exceeded LOE (\$)* Term WAs only			
Previous Total	0	1545		384,157	1545	384,157		
This Action	0	<u>150</u>		0	150	·		
New Total Funding Category:	0 Rulk Funding							
Activity Code: T								
4. WA COMPLETION	DATE Cui	rent: 06-30-201	.5	Revised: 9	-30-2015			
5. EPA COMMENTS: This WA amendment extends the Period of Performance and adds LOE hours.								
6. APPROVALS								
Contractor Signat	ures:		EPA S	ignatures				
Site Manager/Firm		Date		Redmond Assignment Mana	ıger	05-21-2015 Date		
Program Manager/Fi	rm	Date	1	Shabazz onmental Engine	eer	05-21-2015 Date		
Approved As X_Ap Submitted Ch		roved Signa	ture of	ny L B	lle pie	05-1/-/5 Date		

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION							
Project Name:Arrowhea  Activity:RIFS  Date:05-21-2015 (Contracting Officer Use Contracting Of	Contractor Control 1	Contract EPA Contract No. <u>E</u> No	EP-S3-0705			: 057RIFS03Q! o.: <u>Four (4)</u> No.: <u>311</u>	2	
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM  Designate WAM  3. BUDGET INFORMATION		— Partial WP Approval  — WP Disapproval  — Final WP Approval  — Amendment to Final  WP Approval  Approve change in LOE,  scope, or budget  Approve additional tasks		Technical Direction     Memorandum . Details on scope, budget, or schedule . Minor shift within SOW (no change in \$/LOE) . Change WAM _X_Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other		
3. BUDGET INFORMA	FION							
Completion WA  Total Funding Receive		Approved V LOE Term WAs Only	Work Plan B	udget (\$)*	Expen LOE Term WAs o	diture Limits Not to Be Exceeded (\$)* nly		
Previous Total  This Action  New Total  Funding Category: Bulk		0		416,997 0 416,997	01		210,000 100,000 310,000	
Activity Code: RIFS  4. WA COMPLETION I	S/SID: <u>03Q9</u> <b>DATE</b> Current: <u>12-</u>	31-2015	Revise	ed:				
5. EPA COMMENTS: This WA amendmen	nt increases the Expen	diture dollar amour	nts to com	plete the feasil	bility study	•		
6. APPROVALS			_					
Contractor Signatures: Site Manager/Firm		Date		natures: <u>ie M. Davis , Ext. 4</u> signment Manager	-3230		05-21-2015 Date	
Program Manager/Firm		Date		al Shabazz, Est. 4-32 of Officer	281		05-21-2015 Date	
Approved As _X A Submitted Chang	pproved With Not es Approved		July Signature of	Contracting Office	Filles p	ie 05-	11-15 Date	

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION			4. 4004				
Project Name: <u>Standard Cl</u> Activity: <u>Remedial Action</u> Date: <u>05/20/2015</u>		Contractor: HGL  EPA Contract No  Contractor Control	EP-S3-07-	05	Revision Modifica	060RARA03H6  No.:6 (Six)  ation No.:311  cting Officer Use Only)		
2. DESCRIPTION OF A	CTION							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	_X_WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	cope WP Disapproval Final WP Approv		Technical Direction		Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther		
3. BUDGET INFORMA	ΓΙΟΝ				T			
Completion WA X_Term WA		Approved Work Plan Budget			Expenditure Limits Not to Be Exceeded			
Total Funding Received (\$)		LOE (\$)* Term WAs Only		(\$)*	LOE Term WAs	(\$)* only		
Previous Total 17,400,000		10,121	10,121 14,576,110			14,576,110		
This Action	0	3,725			3,725	2,814,285		
New Total <u>17,4</u> Funding Category: <u>Site-S</u>		* Includes fees 17,390,395						
Activity Code: <u>RARA</u>	S/SID: <u>03H6</u>							
4. WA COMPLETION I	DATE Current: 06-	30-2017	Revis	sed:				
5. EPA COMMENTS: This WA amendme	nt approves HGL's R	evised Work Plan	and Cos	st Estimate, date	ed April 14	I, 2015.		
6. APPROVALS					,	2000		
Contractor Signatures:			EPA Si	gnatures:				
Site Manager/Firm		Date	Wo	d White rk Assignment Mana one Number	ger	05-20-2015 Date 215-814-3217		
Program Manager/Firm Date		Date	/s/ Mikal Shabazz Project Officer Phone Number			05-20-2015 Date 215-814-3281		
Approved AsX Ap Submitted Chang		-	13	ffling /h	Gilley or,	To 05-11-15 Date		

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC						
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: North Penn Activity: Technical Assist Date: 05/19/2015		Contractor: <u>HGL</u> EPA Contract No  Contractor Control 1	EP-S3-07-		WA No.: 063TATA03W6  Revision No.: Three (3)  Modification No.: 311		
	A		<del></del>		(Contrac	eting Officer Use Only)	
2. DESCRIPTION OF A  New WA . Attach SOW including schedule . Designate WAM	Attach SOW including (need revised WP and/or cost estimate)		WP Disapproval . Do sc WP Approval . M (n X Amendment to Final . Cl WP Approval . Cl		ection , budget, or in SOW LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther (Extend POP)	
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA X		Approved V LOE Term WAs Only	Vork Plan	Budget (\$)*	Exper LOE Term WAs	nditure Limits Not to Be Exceeded (\$)* only	
Previous Total	0	929 300	0		929 300	149,113 0	
New Total  Funding Category: Bulk  Activity Code: TATA		* Includes fees	149,113		1229 * Includes f		
4. WA COMPLETION I		30-2015	Revi	sed: <u>12-30-2015</u>			
4. WA COMPLETION DATE  Current: 09-30-2015  Revised: 12-30-2015  5. EPA COMMENTS:  This work assignment amendment is being issued on a unilateral basis in accordance with the contract. If the contractor concurs with the LOE hours, the contractor is required to return a signed copy of the work assignment form within 5 working days after receipt. If the contractor does not concur, this must be noted on the work assignment form.  This amendment extends the POP and provides additional time for completing Task 2, Technical Assistance that requires analyzing 17 Sites listed for similarities/dissimilarities to the North Penn 5, OU1 Site.							
6. APPROVALS			,				
Contractor Signatures:			EPA Si	gnatures:			
Site Manager/Firm  Program Manager/Firm		Date	Work Assignment Manaş Phone Number		ger	05-19-2015 Date 215-814-3018 05-19-2015 Date	
X Approved As Approved As Chang	pproved With Not ges Approved	· · · · · · · · · · · · · · · · · · ·	学的	one Number  Cony Contracting Office	Pilly	215-814-3281 215-814-3281 Date	

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRA	CT	1. CONTRACT ID CODE	PAGE (	OF PAGES				
				1	6				
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	l 11	4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)						
0312	See Block 160		e Schedule						
6. ISSUED BY CODE	R3	7	ADMINISTERED BY (If other than Item 6)	CODE					
REGION 3 US ENVIRONMENTAL PROTECTION 1650 ARCH STREET PHILADELPHIA PA 19103-2029	AGENCY								
8. NAME AND ADDRESS OF CONTRACTOR (No., street	county State and ZIP Code)		9A. AMENDMENT OF SOLICITATION NO.						
HYDROGEOLOGIC INC 11107 SUNSET HILLS ROAD SUIT RESTON VA 20190-5309	,	(x)	9B. DATED (SEE ITEM 11)						
		x	10A. MODIFICATION OF CONTRACT/ORDER EP-S3-07-05	NO.					
			10B. DATED (SEE ITEM 13)						
CODE 193942604	FACILITY CODE		06/28/2007						
A STATE OF THE STA	11. THIS ITEM ONLY	APPLIES TO AME	I NDMENTS OF SOLICITATIONS						
Offers must acknowledge receipt of this amendment parterns 8 and 15, and returning columns separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offet to the solicitation and this amendment, and is received.	pies of the amendment; (b) to the solicitation and ame OFFERS PRIOR TO THE I or already submitted, such o	By acknowledging endment numbers. HOUR AND DATE change may be ma	receipt of this amendment on each copy of the c FAILURE OF YOUR ACKNOWLEDGEMENT TO SPECIFIED MAY RESULT IN REJECTION OF Y Ide by telegram or letter, provided each telegram	ffer submitted; or O BE RECEIVED A OUR OFFER. If	(c) By AT by				
12. ACCOUNTING AND APPROPRIATION DATA (If rec	quired)	Net I	ncrease: \$	535,000.0	00				
See Schedule			T MODIFIES THE CONTRACT/ORDER NO. AS D						
B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMEN	CT/ORDER IS MODIFIED I IN ITEM 14, PURSUANT	TO REFLECT THE TO THE AUTHOR	ANGES SET FORTH IN ITEM 14 ARE MADE IN  ADMINISTRATIVE CHANGES (such as change RITY OF FAR 43.103(b).  IORITY OF:						
D. OTHER (Specify type of modification	• /								
X   B.2 Work Assignments	, B.6 Limita	tion of F	unds Notice						
E.IMPORTANT: Contractor Sis not.  14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 193942604 See Item 14 Continuation	is required to sign this (Organized by UCF section								
Continued  Except as provided herein, all terms and conditions of the state of	ne document referenced in		s heretofore changed, remains unchanged and in 6A. NAME AND TITLE OF CONTRACTING OFF						
		ı	Ciffany Gillespie						
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DAT	TE SIGNED 1	6B. UNITED STATES OF AMERICA  J. J. C. Signature of Contracting Officer)	pe	16C. DATE SIGNED  05-28-15				
				<del></del>					

T REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-S3-07-05/0312

PAGE 2

6

NAME OF OFFEROR OR CONTRACTOR
HYDROGEOLOGIC INC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	1 1	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Add Item 0070 as follows:				
0070	Standard Chlorine of Delaware Superfund Site ID: 03H6 Site ID: PAD981033459				500,000.0
	Activity: OU1 Interim Groundwater Remedial Action Dollar Amount: \$500,000 New or Ongoing: Ongoing Contract Name and Number: Remedial Action Contract (RAC), EP-S3-07-05				
	Task Order for the Contract: 004RARA03H6 Brief description of the activity being funded: Continuing implementation of the interim groundwater remedy. POC: Brad White 215-814-				
	3217 Obligated Amount: \$500,000.00 Requisition No: PR-R3-15-00254				
	Accounting Info: 15-T-3ASORH6-303DD2-2505-03H6RA01-C001-153ASE1015- 001 BFY: 15 Fund: T Budget Org: 3ASORH6 Program (PRC): 303DD2 Budget (BOC): 2505 Job #: 03H6RA01 Cost: C001 DCN - Line ID: 153ASE1015-001 Funding Flag: Partial Funded: \$500,000.00				
	Add Item 0071 as follows:				
0071	Atlantic Wood Site ID: 03L2 Site ID: VAD990710410 Activity: Technical Expertise Dollar Amount: \$35,000 Contract Name and Number: Hydrogeologic, Inc.,				35,000.0
	EP-S3-07-05 Task Order for the Contract: To continue ongoing site activities Description: To obtain expertise related to contamination fate and transport and contaminant generation from various processes and products at				
	the Atlantic Wood Industries Superfund (AWI)site.  POC: Harry R. Steinmetz, 215-814-3161 Obligated Amount: \$35,000.00 Requisition No: PR-R3-15-00267				
	Accounting Info: 15-T-03S-501EC7-2505-C001-1503SH1002-001 BFY: 15 Fund: T Budget Org: 03S Program (PRC): 501EC7 Budget (BOC): 2505 Job #: 03L2NG01 Cost: C001 DCN Continued				
				i	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-S3-07-05/0312

PAGE 3

6

NAME OF OFFEROR OR CONTRACTOR
HYDROGEOLOGIC INC

TEM NO.	SUPPLIES/SERVICES		ANTITY		UNIT PRICE	AMOUNT
A)	(B)	(C	C) (	(D)	(E)	(F)
	- Line ID: 1503SH1002-001					
	Funding Flag: Partial					
	Funded: \$35,000.00					
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## **Item 14 Continuation**

- 1. The purpose of this modification is to issue Revision 33 to Work Assignment 004RARA03H6 and Revision 15 to Work Assignment 050TATA03L2.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 307	Changes Under This MOD	Total Funding			
Term Form Segment						
Estimated Cost	\$Exomn	*Exemption (b)				
Fixed Fee	- tryemb	CTOII (D)	(4)			
Total	\$51,272,373.40	\$535,000.00 \$51,807,3				

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMEN	T (WA) INFORMATION							
Project Name: <u>Standard Cl</u> Activity: <u>Remedial Action</u>		Contractor: HGL  EPA Contract No.			•	WA No.: 004RARA03H6  Revision No.: 33 (Thirty-three)		
Date: 05/21/2015		Contractor Control 1	No			ion No.: 312 cting Officer Use Only)		
2. DESCRIPTION OF A	CTION				(Contrac	ching Officer Ose Only)		
New WA need WP for the WA) Attach SOW including schedule Designate WAM  WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scop by task . Add additional tasks or funds for increased activity		Partial WP Approval WP Disapproval Final WP Approval  X Unilateral Amendment to Final WP Approval . Approve change in LOE, scope, or budget . Approve additional tasks		Technical Direction     Memorandum     Details on scope, budget, schedule     Minor shift within SOW (no change in \$/LOE)     Change WAM     X_ Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other		
3. BUDGET INFORMA	ΓΙΟΝ				1			
Completion WA Term WA  Total Funding Received (\$)		Approved V LOE Term WAs Only	Vork Plan	Budget (\$)*	Exper LOE Term WAs	nditure Limits Not to Be Exceeded (\$)* only		
Previous Total 5,376,564		27,090	<u>5,4</u> 4	<u> 17,980</u>	27,040	5,376,564		
This Action500	000	4,000	5(	00,000	4,000	500,000		
Funding Category: Site-S		* Includes fees	<u>5,947,980</u>		31,040 * Includes f			
Activity Code: RARA		21.0015	D .	00 20 20	16			
4. WA COMPLETION I  5. EPA COMMENTS:	DATE Current: 07-	31-2015	Revi	sed:09-30-20	J10			
This work assignment am hours, the contractor is rethis must be noted on the This amendment extends assignment. Specifically,	equired to return a signed c work assignment form. the POP and adds an addit	opy of the work assignm ional \$500,000 and 4000 nt our current budget to	ent form v	within 5 working da ne approved work pl	ys after receip lan budget to	concurs with the Funding and LOE pt. If the contractor does not concur, continue activities under this work rounds the site – conducting the repair		
6. APPROVALS								
Contractor Signatures:			EPA Si	gnatures:				
Site Manager/Firm Program Manager/Firm		Date Date	Wo Pho /s <u>Mik</u> Pro	d White rk Assignment Mana one Number al Shabazz ject Officer ne Number	ger	05-21-2015 Date 215-814-3217 05-21-2015 Date 215-814-3281		
	pproved With Not		141	yany Kil	20les	De 05-28-15		
Submitted Chang		· ·	Signature	of Contracting Office	er,	Date		

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: Atlantic \ Activity: Technical Date: 05-21-2015 (Contracting Officer Use Contracting Off	Assistance	EPA Contract No. EP-S3-0705			A No.: 050TATA03L2  Revision No.: 15 (Fifteen)  Modification No.: 312		
2. DESCRIPTION OF A						<u> </u>	
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity		Partial WP Approval WP Disapproval Final WP Approval X Amendment to Final WP Approval . Approve change in LOE, scope, or budget . Approve additional tasks		Technical Dire     Memorandum     Details on scope     schedule     Minor shift with     (no change in \$//     Change WAM     X Set or revise     limit (EL)	. Fund approved Williams appro		ed WP out Notification actor to initiate WA c fter final invoice extend the Period of
3. BUDGET INFORMA	TION						
Completion WA	Approved Work Plan Budget			Expenditure Limits Not to Be Exceede			
Total Funding Received (\$)		LOE Term WAs Only	(\$)*		LOE Term WAs only		(\$)*
Previous Total 91,000		1,775	229.	319	1,775		229,319
This Action35,000		0	35,000		0	ļ	35,000
New Total 126	000	1,775	264,319		1,775	5	264,319
Funding Category: Site		* Includes fees		* Includes fees			
4. WA COMPLETION	*****	30-2015	Rev	ised: 12-31-2015			
5. EPA COMMENTS:	ent adds \$35,000 to co	ntinue on-going acti	vities ar	nd extends the po	eriod of pe	rformance to	12/31/2015.
6. APPROVALS							
Contractor Signatures:			EPA S	gnatures:			
Site Manager/Firm		Date		ry Steinmetz Assignment Manager		05-2	21-2015 Date
Program Manager/Firm		Date	/s/ Mikal Shabazz Environmental Engineer			05-2	<u>21-2015</u> Date
Approved As _X _ Submitted Chang	Approved With Not ges Approved	,	Signature	L. Ufferny of Contracting Office	hSI	logia	D5-28-15 Date

AMENDME	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	CONTRACT ID CODE			PAGE OF PAGES			
			14 854	QUISITION/PURCHASE REQ. NO.	ls pp	1 OJECT NO	4 ). (If applicable)		
	ENT/MODIFICATION NO.	3. EFFECTIVE DATE		R3-15-00298	5. FK	OJECTNO	. (п аррпсавіе)		
0313 6. ISSUED BY	Y CODE	See Block 16C		MINISTERED BY (If other than Item 6)	CODE	<b>:</b>			
1650 AR	3 RONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029					L			
8. NAME AND	D ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x) 9A	A. AMENDMENT OF SOLICITATION NO.					
11107 S	OLOGIC INC UNSET HILLS ROAD SUIT VA 20190-5309	9B. DATED (SEE ITEM 11)  x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-S3-07-05							
			10	DB. DATED (SEE ITEM 13)					
CODE 19	93942604	FACILITY CODE  11. THIS ITEM ONLY APPLIES TO		06/28/2007					
to the solic	itation and this amendment, and is receive ITING AND APPROPRIATION DATA (If recodule  13. THIS ITEM ONLY APPLIES TO MAKE THE CONTRACT OF THE C	d prior to the opening hour and date spe quired)  Net  MODIFICATION OF CONTRACTS/ORDER  PURSUANT TO: (Specify authority) THI  CT/ORDER IS MODIFIED TO REFLECT H IN ITEM 14, PURSUANT TO THE AUTHORISM IN THE AUTHO	cified.  L In  RS. IT M  E CHAN  THE A  THORIT	MODIFIES THE CONTRACT/ORDER NO. AS IGES SET FORTH IN ITEM 14 ARE MADE I  DMINISTRATIVE CHANGES (such as change) Y OF FAR 43.103(b).	\$16,8	399.00 BED IN ITE			
Х	B.2 Work Assignments		f Fu	nds Notice					
E. IMPORTA		is required to sign this document a			uina offici	9.			
14. DESCRIF	PTION OF AMENDMENT/MODIFICATION			solicitation/contract subject matter where fe	asible.)				
15A. NAME		he document referenced in Item 9A or 1	16A Ti	neretofore changed, remains unchanged and A. NAME AND TITLE OF CONTRACTING Of a second contraction of the second contracti		Type or pr			
	(Signature of person authorized to sign)			(Signature of Contracting Officer)	LY J	العا	06-11-15		
NSN 7540-0 Previous edit			!	U	Prescri	ARD FOR bed by GS. 8 CFR) 53.			

		<del></del>		
	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAG	GE OF	=
CONTINUATION SHEET	EP-S3-07-05/0313	2	2	4

NAME OF OFFEROR OR CONTRACTOR HYDROGEOLOGIC INC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	1	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Payment:				
	RTP FINANCE CENTER US ENVIRONMENTAL PROTECTION AGENCY				
	RTP-FINANCE CENTER AA216-01				
	109 TW ALEXANDER DRIVE				
	WWW2EPAGOVFINANCIALCONTRACTS				
	DURHAM NC 27711				
0072	Site or Non-Site (if Site I need the ID) - 03H7				16,899.
	Activity (if Site I need the OU, if applicable)		1		
	Technical Assistance 0U00		1		
	Dollar Amount - \$16,899				
	New or Ongoing - Ongoing				
	Contract EP-S3-07-05 WA - 033TATA03H7		1		
	Ongoing development of Conceptual Site Model as				
	approved in Work Assignment Work Plan.				
	POC: Barber, Joshua 215-814-3393				
	Obligated Amount: \$16,899.00				
	Accounting Info:				
	15-TR2B-03S0XH7-303DD2-2505-03H7TA00-C001-1503SK10				
	31-001 BFY: 15 Fund: TR2B Budget Org: 03S0XH7				
	Program (PRC): 303DD2 Budget (BOC): 2505 Job #:				
	03H7TA00 Cost: C001 DCN - Line ID: 1503SK1031-001	1			
	Funding Flag: Partial Funded: \$16,899.00		1		
	runded: \$16,699.00				
	·				•

## **Item 14 Continuation**

- 1. The purpose of this modification is to issue Revision 11 to Work Assignment 033TATA03H7.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 312	Changes Under This MOD	Total Funding
Term Form Segment			
Estimated Cost	\$Fvomnt	ion (b)	(4)
Fixed Fee	'TYCIII C		( 7 )
Total	\$51,807,373.40	\$16,899.00	\$51,824,272.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC						
1. WORK ASSIGNMEN	T (WA) INFORMATION				1	
Project Name: Bendix Flight Systems Division Contractor: HGL WA No.: 033TATA03H7  Activity: Technical Assistance EPA Contract No. EP-S3-07-05 Revision No.: 11 (Eleven)  Date: 06-09-2015 Contractor Control No. Modification No.: 313 (Contracting Officer Use Only)						
2. DESCRIPTION OF A	CTION					
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval Final WP Approval Final WP Approval Amendment to WP Approval . Approve change in scope, or budget . Approve additional	Memo   Details of schedule   Minor sl (no chan   Change   LOE,   X   Set or limit (EL)	hift within SOW nge in \$/LOE) WAM revise expenditure	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other	
3. BUDGET INFORMA	TION					
Completion WA _X_ Total Funding Receive		Approved Work Plan Budget LOE (\$)* Term WAs Only		L OE	Expenditure Limits Not to Be Exceeded L OE (\$)* Term WAs only	
Previous Total 89,12	24	2709	272,914	2669	268,914	
This Action 16,89  New Total 106,0  Funding Category: Special Activity Code: TA	nl Account		<u>16,899</u> <u>289,813</u>	140 2809 * Includes f		
4. WA COMPLETION I	DATE Current: 12	-31-2016	Revised:			
5. EPA COMMENTS: This Work Assignment amendment adds dollars and hours for ongoing development of the Conceptual Site Model as approved in Work Assignment Work Plan.						
6. APPROVALS	6. APPROVALS					
Contractor Signatures:			EPA Signatures:			
Site Manager/Firm Date /s/Joshua Barber 06-09-2015 Work Assignment Manager Date					Date	
Program Manager/Firm	Date		Mikal Shabazz Environmental Engir	neer	06-09-2015 Date	
	_ Approved As _X Approved With _ Not Jeffang K. Billega _ 06-11-15					

AMENDME	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE		PAGE 1	OF PAGES
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. R	 EQUISITION/PURCHASE RE	EQ. NO.		NO. (If applicable)
0314		See Block 16C	L				
6. ISSUED B	Y CODE	R3	7.7	ADMINISTERED BY (If other I	than Item 6)	CODE	
1650 AF	3 ERONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	AGENCY				•	
8. NAME AND	D ADDRESS OF CONTRACTOR (No., street	, county, State and ZIP Code)	(x)	9A. AMENDMENT OF SOLIC	CITATION NO.		
HADDUCE	OLOGIC INC						
	UNSET HILLS ROAD SUIT	€ 400		9B. DATED (SEE ITEM 11)			
RESTON '	VA 20190-5309						
			х	10A. MODIFICATION OF CO EP-S3-07-05	NTRACT/ORDER N	0.	
				10B. DATED (SEE ITEM 13)			
CODE 1	93942604	FACILITY CODE		06/28/2007			
	numbered solicitation is amended as set for	11. THIS ITEM ONLY APPLIES TO			S is exter		not extended.
virtue of thi to the solic		or already submitted, such change may be diprior to the opening hour and date specturied)	e ma cified	de by telegram or letter, provi	ded each telegram o	r letter makes	reference
	13. THIS ITEM ONLY APPLIES TO M	ODIFICATION OF CONTRACTS/ORDER	RS. I	MODIFIES THE CONTRACT	ORDER NO. AS DE	SCRIBED IN	ITEM 14.
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED F ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority) THE	E CH/	ANGES SET FORTH IN ITEM	14 ARE MADE IN T	HE CONTRA	СТ
	B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH	CT/ORDER IS MODIFIED TO REFLECT I IN ITEM 14, PURSUANT TO THE AUT	THE	ADMINISTRATIVE CHANGE RITY OF FAR 43.103(b).	S (such as changes	in paying offic	ce,
	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT TO A	AUTH	ORITY OF:			
	D. OTHER (Specify type of modification	and authority)					
X	B.2, Work Assignment	.s					
E. IMPORTA	NT: Contractor X is not,	is required to sign this document ar	nd ret	urn	copies to the issuin	g office.	
14. DESCRIP	PTION OF AMENDMENT/MODIFICATION	(Organized by UCF section headings, ir	ncludi	ng solicitation/contract subjec	t matter where feasi	ble.)	
The pur	pose of this modifica	tion is to issue Rev	ris.	ion 13 to Work	Assignment	030ROE	BE03EQ,
_	on 16 to Work Assignme						
	ovided herein, all terms and conditions of the AND TITLE OF SIGNER (Type or print)	ne document referenced in Item 9A or 10		6A. NAME AND TITLE OF C			
, 57 1. 147 WILL F	S. S. S. S. L. (1) po S. p. may						. ,
1ED CONTO	ACTOD/OFFEDOR	15C. DATE SIGNED	Tiffany Gillespie D 16B. UNITED STATES OF AMERICA 5 A 16C. DATE SIGNED /				
ISB. CUNTR	ACTOR/OFFEROR	ISO. DATE SIGNED		AO		(O, n)	To Alanda
	(Signature of person authorized to sign)			(Signature of Co	ontracting Officer)	pre	1 46/35/15
NSN 7540-01	1-152-8070			~ W (T	ģ		ORM 30 (REV. 10-83)
Previous edit	tion unusable					rescribed by AR (48 CFR)	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT	(WA) INFORMATION						
Project Name: Centra	al Chemical	Contractor: _	HGL		WA No.: 030ROBE03EQ		
Activity: RD Oversight	Oversight EPA Contract No. EPS				Revisio	on No.: Thirteen (13)	
	Contractor Contro					No.: 314	
(Contracting Officer Use							
2. DESCRIPTION OF A	CTION						
Now MA	10/0 0	Postiol WD As	araual	Technical D	iraction	Incremental Funding	
New WA	WA Amendment	Partial WP Ap	•				
(need WP for the WA)	(need revised WP and/or	I — ···		Memorandu		. Fund approved WP	
. Attach SOW	cost estimate)	Final WP App		. Details on scop	e, buaget,	WA Closeout Notification	
including schedule	. Change in LOE or	Amendment to	o Final	or schedule		. Notify contractor to initiate	
. Designate WAM	scope by task	WP Approval		. Minor shift withi	n SOW	WA closeout task	
	. Add additional tasks or	. Approve change i	n LOE,	(no change in S	(LOE)	. Revise EL after final invoice	
	funds for increased	scope, or budget		. Change WAM		_X_Other_Extend_POP	
	activity	. Approve additiona	ıl tasks	Set or revis	е		
				expenditure limit	(EL)		
3. BUDGET INFORMAT	ION						
Completion WA	X Term WA	Approved V	Vork Plan	Budget	Expendi	ture Limits Not to Be Exceeded	
Total Funding Red		LOE	ronc i lan	(\$)*	LOE	(\$)*	
Total Fullaling Nec	Selved (4)			(Ψ/~	Term WAs		
		Term WAs Only			Telli WAS	Offiny	
Previous Total	392,451	2999		392,451	2999	392,451	
This Action	0	0	_	0		00	
New Total	392,451	2999	-	392,451	2999		
	332,131	* Includes fees		332,131	* Includes		
Funding Category:	Bulk Sita Specific	* includes lees			* moiddes	1000	
Activity Code:ROBE							
4. WA COMPLETION D		06-30-2015		Revi	Lsed: 10-3	31-2016	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
5. EPA COMMENTS:							
This work assignme	nt amendment extends	the Period of Peri	ormance	POP)			
6. APPROVALS							
Contractor Signatures:			EPA S	ignatures:			
			Mitch	Cron		06-25-2015	
Site Manager/Firm		Date	Work A	ssignment Manager		Date	
			Mikal	Shabazz		06-25-2015	
Program Manager/Firm		Date	Environ	mental Engineer		Date	
Approved AsX _Approved With Not							

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	1. WORK ASSIGNMENT (WA) INFORMATION						
Project Name:Peck Iron Activity: RIFS Date:06-24-2015  2. DESCRIPTION OF A New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	and Metal (	Contractor:HGL  EPA Contract NoEP-S2  Contractor Control No  Partial WP Approval  Final WP Approval  X _ Amendment to	oval Final	Technical Dire Memorandum Details on scope, schedule Minor shift withi (no change in \$/I Change WAM Set or revise ex	, budget, or in SOW LOE)	6 (Sixteen)  : 314 cer Use Only) Incremen . Fund approveWA Close . Notify contractoseout task . Revise EL at	ed WP  out Notification actor to initiate WA
		scope, or budget . Approve additional	tasks	limit (EL)			
3. BUDGET INFORMA  Completion WA		Approved W	Jork Plan I	Budget	Expen	diture Limits No	ot to Be Exceeded
Total Funding Receive		Approved Work Plan Budget  LOE  Term WAs Only			LOE Term WAs o		(\$)*
Previous Total			2,134,091			1,470,000 0 1,470,000	
Activity Code: RICO  4. WA COMPLETION I		31-2016	Revise	-d· .	<u> </u>		
5. EPA COMMENTS:	4. WA COMPLETION DATE  Current: 12-31-2016  Revised:						
6. APPROVALS							
Contractor Signatures: Site Manager/Firm Program Manager/Firm		Date /s/_Down		Vork Assignment Manager D Phone Number Ex		-24-2015_	
	Environmental Engineer  Date Phone Number Ext. 4-3281						
Submitted Chang	ses Approved	Signa	itui¢oi Co	htracting Officer,	*		vaic

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC						
1. WORK ASSIGNMEN	T (WA) INFORMATION					
Project Name: AIW Fr Activity: RIFS - Var Date: _06-18-2015 (Contracting Officer Use C  2. DESCRIPTION OF A New WA (need WP for the WA)	oor Intrusion Sampling  Contractor Contractor	Contractor.:  EPA Contract:  trol No  Partial WP Appro	No. <u>EP-S</u>	3-07- 05	Revision Modifica	Incremental Funding . Fund approved WP
. Attach SOW including schedule . Designate WAM	cost estimate)  Change in LOE or scope by task  Add additional tasks or funds for increased activity	— WP Disapproval  — Final WP Approv  — Amendment to F WP Approval  . Approve change in scope, or budget . Approve additional	. Details on scope, I schedule . Minor shift within (no change in \$/L0 change WAM  LOE, Set or revise explimit (EL)		n SOW LOE)	WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther
3. BUDGET INFORMA	rion			1		
•	Completion WAX _ Term WA Approved Work Plan Budget  Total Funding Received (\$)  LOE (\$)*  Term WAs Only			_	Expenditure Limits Not to Be Exceeded  LOE (\$)*  Term WAs only	
Previous Total		1112_		\$ 136 <u>,597</u>	1112	\$ 136,597
This Action		0		0	0	0
New Total		1112			1112	
Funding Category: Bulk		* Includes fees		* Includes fe	es	
Activity Code: CO S	S/SID: <u>032S</u>					
4. WA COMPLETION I	DATE Current: 00	6/30/2015	Revis	sed: 06/30/2016		
	t amendment extends the approved work plan)				actor to colle	ect additional residential VI
6. APPROVALS	,					
Contractor Signatures:			EPA Sig	gnatures:		
Site Manager/Firm  Program Manager/Firm		Date	Charlie Root Work Assignment Manager Phone Number (215) 814-3193		Date 06-18-2015	
			Mikal S Environ	habazz mental Engineer		Date 06-18-2015
Approved As _X A Submitted Chang	pproved With Not es Approved	<u></u>	Signature	Contracting Office	siller g	W Date 06/25/15

AIW Frank/Mid-County Mustang Site - Follow-up Vapor Intrusion Sampling (Task 3):

The task includes vapor intrusion sampling of both sides of the on-site duplex (Mid-County Mustang portion of property). A minimum of one sub-slab and indoor air sample will be collected from each side of the duplex and an outdoor ambient air sample will be collected at the time of indoor air sampling. At a minimum, one field duplicate will be collected. VI sampling will be conducted in accordance with EPA OSWER Publication 9200.2-154 - OSWER TECHNICAL GUIDE FOR ASSESSING AND MITIGATING THE VAPOR INTRUSION PATHWAY FROM SUBSURFACE VAPOR SOURCES TO INDOOR AIR, June 2015. Samples will be analyzed vie method TO-15 for VOCs. Contractor should process an appropriate analytical request through the EPA Ft. Meade lab for analyses, however, if EPA Ft. Meade cannot process request contractor should be prepared to arrange for analyses through a certified laboratory. However, contractor will not proceed through a certified laboratory without EPA WAM approval. Contractor will coordinate through EPA initially with property owner/renters for access. Once access is granted, contractor to coordinate with residence for sampling day(s) scheduling. It is anticipated that the sampling will be a two day sampling event with a contingency for a third day. Contractor should inventory properties for household items with the potential to produce VOCs as well as keep a photo log of the household inventory and sampling locations (before and after). Contractor should make arrangements to securely store any items which need to be temporarily removed (24hrs prior to sampling) from the residence. Contractor will prepare a trip report/letter report documenting the sampling event and provide with sample analyses results.

AMENDM	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1	E OF PAGES		
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. R	EQUISITION/PURCHASE REQ. NO.		T NO. (If applicable)		
0315		See Block 16C						
6. ISSUED B	Y CODE	R3	7.7	ADMINISTERED BY (If other than Item 6)	CODE			
1650 AF	3 RONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	AGENCY			<b>1</b>			
8. NAME ANI	D ADDRESS OF CONTRACTOR (No., street	t, county, State and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.				
UVDDOCE	OLOGIC INC		H					
11107 SUNSET HILLS ROAD SUITE 400 RESTON VA 20190-5309				9B. DATED (SEE ITEM 11)				
			х	10A, MODIFICATION OF CONTRACT/ORDER N EP-S3-07-05	IO.			
			_	10B. DATED (SEE ITEM 13)				
CODE 1	93942604	FACILITY CODE		06/28/2007				
		11. THIS ITEM ONLY APPLIES TO	AMEN	NDMENTS OF SOLICITATIONS				
Items 8 and separate leads THE PLAC virtue of the to the solic	d 15, and returning co etter or telegram which includes a reference E DESIGNATED FOR THE RECEIPT OF is amendment you desire to change an offe itation and this amendment, and is receive	pies of the amendment; (b) By acknowle to the solicitation and amendment num OFFERS PRIOR TO THE HOUR AND er already submitted, such change may d prior to the opening hour and date spe	ledging nbers. DATE be ma	itation or as amended, by one of the following met preceipt of this amendment on each copy of the of FAILURE OF YOUR ACKNOWLEDGEMENT TO SPECIFIED MAY RESULT IN REJECTION OF York de by telegram or letter, provided each telegram of	ffer submitted BE RECEIVI OUR OFFER	t; or (c) By ED AT : If by		
12. ACCOUN	ITING AND APPROPRIATION DATA (If rec	quired)						
see sei		ODIFICATION OF CONTRACTS/ORDE	ERS. I	T MODIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBED IN	I ITEM 14.		
CHECK ONE				ANGES SET FORTH IN ITEM 14 ARE MADE IN 1				
	B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORTI	CT/ORDER IS MODIFIED TO REFLEC H IN ITEM 14, PURSUANT TO THE AU	T THE	ADMINISTRATIVE CHANGES (such as changes RITY OF FAR 43.103(b).	in paying off	lice,		
	C. THIS SUPPLEMENTAL AGREEMEN	IT IS ENTERED INTO PURSUANT TO	AUTH	ORITY OF:	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>			
	D. OTHER (Specify type of modification	and authority)						
X	B.2, Work Assignment	s						
E. IMPORTA	NT: Contractor X is not,	is required to sign this document a	and ret	urn copies to the issuir	ng office.			
14. DESCRIP		(Organized by UCF section headings,	includi	ing solicitation/contract subject matter where feas	ible.)			
The pur	pose of this modifica	tion is to issue Re	vis	ion 20 to Work Assignment	: 013TA	TA03P9,		
				8 to Work Assignment 046				
Revisio	n 12 to Work Assignme	nt 047RSNK03B2 and	Rev	ision 3 to Work Assignmer	nt 053R	ORD03W6.		
					full force and	offort		
	ovided herein, all terms and conditions of the AND TITLE OF SIGNER (Type or print)	ne accument reterenced in Item 9A or 1		s heretofore changed, remains unchanged and in 6A. NAME AND TITLE OF CONTRACTING OFF				
	and the desired trype of pilling							
		160 010		Tiffany Gillespie				
15B. CONTR	ACTOR/OFFEROR	15C. DATE SIGNED	1	6B. UNITED STATES OF AMERICA  Jyfan K. Di	Waji	DATE SIGNED		
1101175100	(Signature of person authorized to sign)			(   Signature of Contracting Officer)	STANDARD I	FORM 30 (REV. 10-83)		

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC						
1. WORK ASSIGNMENT	r (WA) INFORMATION					
Activity: Technica	llertown Manufacturi al Assistance Contractor C	EPA Contract No.	EPS30	705 Re	vision No.:	Twenty(20)
•	•	oncroi no.			ouiiicacion	. NO
(Contracting Office 2. DESCRIPTION OF					<del></del>	
New WA (need WP for the WA) . Attach SOW including schedule . Designate Contracting Officer Representative (COR)	WA Amendment (need revised WP and/or cost estimate) .Change in LOE or scope by task .Add additional tasks or funds for increased activity	Partial WP AppWP DisapprovalFinal WP ApprovAmendment to F	oval Tinal Il in r	Technical Direction Memorandum .Details on budget, or .Minor shift SOW (no change \$/LOE) .Change WAMSet or rev. expenditure	scope, schedule within in	Incremental Funding . Fund approved WP WA Closeout Notification .Notify contractor to initiate WA closeout task .Revise EL after final invoice X_Other Extend the Period of Performance
3. BUDGET INFORMA	rion					
Completion WA  Total Funding Rec  Previous Total  This Action  New Total  Funding Category:	ceived (\$)	Approved Wo LOE Term WAs Only 900 0 900 * Includes fees	_	Budget (\$)*  88,897  0  88,897	LOE Term WAs (	99,897 0 0 0 88,897
Activity Code: Ti	ATAS/SID:03P9					
4. WA COMPLETION I	DATE Cur	rent: 6-30-2015	Re	vised: 12-	31-2015	
5. EPA COMMENTS:	WA completion dat	e is extended to 12-3	1-2015			
6. APPROVALS						
Contractor Signate Site Manager/Firm Program Manager/Fi:		Date	Timothy	gnatures: M. Gallagher signment Mana		07-01-2015 Date
Approved As X_App	proved WithNot	coved	Mikal S Environ	Shabazz mental Engine	eer Door	Date 1/01/15
Dubiti ceed Clie	angeo Appi	.oveu	( _ YV	of Fortunas	1205 TELES	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT (WA) INFORMATION							
-	Penn	<del></del>			'A No.: 028ROBE03BD		
Date: <u>07-</u> 01-2015	Control No.			•	lification No.:	.: <u>7 (Seven)</u>	
(Contracting Officer Use C		Control No.			WIOC	inication No	313
2. DESCRIPTION OF A	CTION			•			
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval WP Disapproval Final WP Approval Final WP Approval Amendment to Final		. Fund approvements of the control o		eout Notification ractor to initiate WA sk after final invoice Extend the Period of	
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA X	_ Term WA	Approved V	Vork Plan I	Budget	Expen	diture Limits N	ot to Be Exceeded
Total Funding Receive	ed (\$)	LOE (\$)* Term WAs Only			LOE Term WAs o		
Previous Total150	,000	1200	141,664 1200		0	141,664	
This Action	0	0	0		(	<u>)</u>	0
New Total150,	000			1200 * Includes fe		\$ <u>141,664</u>	
Funding Category: Site S	Specific Specific	motates res					
Activity Code: RO S	S/SID: 03BD						
4. WA COMPLETION I	OATE Current: 06-3	0-2015	Revi	sed: 12-31-2015			
5. EPA COMMENTS:							
	WA completion da	te is extended to 12-3	31-2015.				
6. APPROVALS		Mh.					
Contractor Signatures:			EPA Sig	gnatures:			
Site Manager/Firm		Date		pi Khona ssignment Manager	I	Phone Number	07-01-2015 Date ()
Program Manager/Firm		Date		al Shabazz mental Engineer		(	07-01-2015 Date
X Approved As A Submitted Change	approved With Not es Approved	S	J.4 Signature o	Stan L, f Contracting Office	Silly	pie (	DHO1/15

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	1. WORK ASSIGNMENT (WA) INFORMATION						
Project Name: North Penn 7 Contractor: HGL. WA No.: 046RIFS03X1  Activity: Feasibility Study EPA Contract No. EP-S3-0705 Revision No.: Eight (8)  Date: 07-01-2015 Contractor Control No. Modification No.: 315 (Contracting Officer Use Only)					<u>t (8)</u>		
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP ApprovalWP DisapprovalFinal WP ApprovalAmendment to FinalWP Approval . Approve change in LOE, scope, or budget . Approve additional tasksTechnical Directi Memorandum . Details on scope, b schedule . Minor shift within (no change in \$/LO . Change WAMSet or revise explained (EL)		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice X Other Extend the Period of Performance		
3. BUDGET INFORMATION							
Completion WA Term WA		Approved Work Plan Budget		Expen	diture Limits Not to Be Exceeded		
Total Funding Receive	ed (\$)	LOE (\$)* Term WAs Only		(\$)*	LOE Term WAs o	(\$)* nly	
Previous Total		2178	_349	<u>2,451</u>	2178	_349,451	
This Action		0		0	0	0	
New Total Funding Category: S		<u>2178</u> * I	349 ncludes fee	<u>9,451</u> s	* Includes fe	349,451 es	
Activity Code: RI S/		0.0015		1 02 21 2016			
4. WA COMPLETION E 5. EPA COMMENTS: 1	OATE Current: 06-3		Revi	sed: 03-31-2016			
6. APPROVALS							
Contractor Signatures: EPA Signatures:							
Site Manager/Firm  Program Manager/Firm		Date Date	Work As	d Turner signment Manager  I Shabazz ronmental Engineer	Phone Nur	07-01-2015 Date nber (215)814-3216 07-01-2015 Date	
Approved AsX A Change	approved With Not es Approved		July Signature o	four Kt	ally.	Date 7/01/15	

						· · · · · · · · · · · · · · · · · · ·	
	EPA WORK ASS	SIGNMENT FO	RM (W	AF) FOR RA	AC		
1. WORK ASSIGNMEN	Γ (WA) INFORMATION						
Project Name: Kane and		Contractor: HGL.					
Activity: FS Oversigh	<u>t                                      </u>	EPA Contract No. <u>EP-S3-</u>	0705	Re	vision No.: 12	2 (Twelve)	
Date: <u>07-01-2015</u> (Contracting Officer Use O		Control No.			Mod	ification No.: 3	<u>15</u>
2. DESCRIPTION OF A	CTION						
(need WP for the WA) . Attach SOW including schedule . Designate WAM  Designate WAM  (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity  . A		WP Disapproval Final WP Approv Amendment to F	Final WP Approval Amendment to Final WP Approval . Approve change in LOE,		Technical Direction Memorandum  Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAMSet or revise expenditure limit (EL)		I Funding d WP  out Notification ctor to initiate WA  ter final invoice end the Period of
3. BUDGET INFORMAT	ΓΙΟΝ						
Completion WA	Term WA	Approved V	Vork Plan I	Budget	Expen	diture Limits Not	t to Be Exceeded
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs o	only	(\$)*
Previous Total	140,165	1072		140,165	1,072	2	140,165
This Action	<u>0</u>	0		0	(	)	0
New Total	140,165	1,072		140,165	1,072 * Includes fe		140,165
Funding Category: Site	Specific	* 1	ncludes fee	;S	* includes le	:05	
Activity Code: ROBE S	/SID: 03B2						
4. WA COMPLETION I	OATE Current: 06-3	0-2015	Revi	sed: 12-31-2015			
5. EPA COMMENTS:	is extended to 12-31-20	15					
Wit completion date	is extended to 12-31-20	13.					
6. APPROVALS							
Contractor Signatures:			EPA Sig	gnatures:			
Site Manager/Firm		Date		pi Khona ssignment Manager	F	07-0 Date Phone Number <u>(</u>	
Program Manager/Firm		Date		l Shabazz mental Engineer		07-( Da	01-2015 te
X Approved As A Submitted Change	pproved With Not Approved	J. H. Signature of	Contractin	K SUL	Aw	$\mathcal{D} \mathcal{F} / \mathcal{Q}$	Re / 15

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Activity: New Work Assi	gnment	Contractor: HC EPA Contract No. EP Control No.	-S3-07-05	Revision	1 No.: 3 (Three)		
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval WP Disapproval Final WP Approval Amendment to Final WP Approval Approve change in LOE scope, or budget Approve additional task	limit (EL)	e, budget, or nin SOW /LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX Other_Extend the Period of Performance		
3. BUDGET INFORMA	TION						
4. WA COMPLETION	DATE Current: 06	-30-2015	Revised: 12-31-	2015			
5. EPA COMMENTS: Extend POP to 12/31/201	5		·				
6. APPROVALS	A DESCRIPTION OF THE PROPERTY						
Contractor Signatures:  Site Manager/Firm  Program Manager/Firm	Date	<u>Sh</u> W	PA Signatures:  Maron Fang  Ork Assignment Manager  ikal Shabazz  Oject Officer		07-01-2015 Date 07-01-2015 Date		
X Approved As A	pproved With Not anges Approved	Jellow	m/hJolley	) w	07/01/15 Date (		

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF	1 _
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. F	EQUISITION/PURCHASE REQ. NO.	5. PR		). (If applicable)
0316	See Block 16C					·
6. ISSUED BY CODE	R3	7. /	ADMINISTERED BY (If other than Item 6)	CODE	=	
REGION 3 US ENVIRONMENTAL PROTECTION 1650 ARCH STREET PHILADELPHIA PA 19103-2029	AGENCY					
8. NAME AND ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.			
HYDROGEOLOGIC INC						
1107 SUNSET HILLS ROAD SUIT	E 400		9B. DATED (SEE ITEM 11)			
RESTON VA 20190-5309						
			10A. MODIFICATION OF CONTRACT/ORDE	R NO.		
		x	EP-S3-07-05			
			10B. DATED (SEE ITEM 13)			
CODE 193942604	FACILITY CODE		06/28/2007			
	11. THIS ITEM ONLY APPLIES T	TO AME	NDMENTS OF SOLICITATIONS			
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an office to the solicitation and this amendment, and is receive 12. ACCOUNTING AND APPROPRIATION DATA (If respective) See Schedule	OFFERS PRIOR TO THE HOUR AND er already submitted, such change mand ed prior to the opening hour and date se quired)	D DATE ay be ma specified	SPECIFIED MAY RESULT IN REJECTION O ide by telegram or letter, provided each telegra	F YOUR C	FFER. If b	by erence
13. THIS ITEM ONLY APPLIES TO M	MODIFICATION OF CONTRACTS/ORD	DERS. I	T MODIFIES THE CONTRACT/ORDER NO. AS	DESCRIE	BED IN ITE	М 14.
A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority)	THE CH	ANGES SET FORTH IN ITEM 14 ARE MADE	IN THE CO	ONTRACT	
			THE OLIVINOTE AT A STATE OF THE OLIVINOTE OLI			
B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	CT/ORDER IS MODIFIED TO REFLE H IN ITEM 14, PURSUANT TO THE A	AUTHO	E ADMINISTRATIVE CHANGES (such as chan RITY OF FAR 43.103(b).	ges in pay	ing onice,	
C. THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED INTO PURSUANT T	TO AUTH	ORITY OF:			
0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
D. OTHER (Specify type of modification	n and authority)					
X B.2, Work Assignment	ts					
E. IMPORTANT: Contractor X is not,	is required to sign this documen	nt and re	turn copies to the is	suing offic	e.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION	I (Organized by UCF section headings	s, inclua	ing solicitation/contract subject matter where f	easible.)		
DUNS Number: 193942604						
The purpose of this modifica	ation is to issue R	Revis	ion 21 to Work Assignme	nt 01	3TATA	03P9 and
Revision 5 to Work Assignmer	nt 057RIFS03Q9.					
Except as provided herein, all terms and conditions of	the document referenced in Item 9A o					
15A. NAME AND TITLE OF SIGNER (Type or print)		1	16A. NAME AND TITLE OF CONTRACTING (	JEFICER (	rype or pri	ny
		-	Tiffany Gillespie			
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNE	D .	IGB. UNITED STATES OF AMERICA (2)	7	7	16C. DATE SIGNED
			Tuttin K/SIII	/hos	ا رر	02/11/
(Signature of person authorized to sign)			(Signature of Contracting Officer)	11/1	in/	41/16/1
NSN 7540-01-152-8070	,	4				M 30 (REV. 10-83)/
Previous edition unusable				FAR (4	ibed by GS/ I8 CFR) 53.	.243
				,	*	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT							
Activity: Technica	llertown Manufacturi	EPA Contract No.	EPS307	05 Rev	vision No.:	Twenty-One (21)	
Date: 7-15-2015	Contractor C	ontrol No.		Mo	dification	No.: 316	
(Contracting Office	er Use Only)						
2. DESCRIPTION OF	ACTION					W	
New WA (need WP for the WA) .Attach SOW including schedule .Designate Contracting Officer Representative (COR)	WA Amendment (need revised WP and/or cost estimate) .Change in LOE or scope by task .Add additional tasks or funds for increased activity	Partial WP ApprWP DisapprovalFinal WP Approv  X Amendment to F WP Approval .Approve change : LOE, scope, or budget .Approve addition tasks	val l'inal lin	Technical D Memorandum Details on s budget, or Minor shift SOW (no change \$/LOE) .Change WAM  X Set or rev expenditure 1	scope, schedule within in	Incremental Funding . Fund approved WP WA Closeout Notification .Notify contractor to    initiate WA    closeout task .Revise EL after    final invoiceOther	
3. BUDGET INFORMA	TION						
Completion WA	Term WA	Approved Wo	rk Plan H	Budget	Expendi	ture Limits Not to Be Exceeded	
Total Funding Re	ceived (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs	(\$)*	
Previous Total		900	8	8,897	90+	0 88,897	
This Action		60	_	0	6	00	
New Total	D. 11. D. 11	* Includes fees	8	88,897	* Include	0	
Funding Category: Activity Code: T	BUIK FUNGING ATAS/SID:03P9						
4. WA COMPLETION	<b>DATE</b> Cui	rrent: 12-31-2015	5 R€	evised:			
	hours for the complof groundwater sam		robe Teo	chnical Mem	orandum a	and the	
6. APPROVALS							
Contractor Signat	ures:		EPA Si	gnatures:			
Site Manager/Firm		Date		M. Gallagher signment Mana		07-15-2015 Date	
Program Manager/Fi	rm	Date	Mikal S Environ	habazz mental Engine	eer	07-15-2015 Date	
I —		ot pproved S	Jy	of Contract	JULEP ing Offiger	e 07/16/15	

	EPA WORK ASS	SIGNMENT FO	RM (W	AF) FOR RA	AC		
1. WORK ASSIGNMEN	Γ (WA) INFORMATION						
Project Name:Arrowhea  Activity:RIFS  Date:07-15-2015 (Contracting Officer Use O  2. DESCRIPTION OF A	only)	Contractor: HGL  EPA Contract No. E  Contractor Control No.  Partial WP Appro	)	F	VA No.: 05  Revision No.: _  Modification N	Five (5)	tal Funding
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	WP Disapproval Final WP Approv Amendment to F	al inal LOE,	Memorandum Details on scope, schedule Minor shift withi (no change in \$/I Change WAM  X Set or revise of limit (EL)	budget, or n SOW LOE)	- WA Clos - WA Clos - Notify con closeout ta Revise EL	ved WP seout Notification tractor to initiate WA
3. BUDGET INFORMA	TION						
Completion WA Total Funding Receive		Approved V  LOE  Term WAs Only	/ork Plan l	Budget (\$)*	Expen LOE Term WAs o		Not to Be Exceeded (\$)*
Previous Total  This Action  New Total				416,997 0 416,997	1300 150 1,450		310,000 0 310,000
Funding Category: <u>Bull</u> Activity Code: <u>RIFS</u>	S/SID: <u>03Q9</u>		ncludes fe		* Includes for		
4. WA COMPLETION	DATE Current: 12-	31-2015	Revi	sed:			
5. EPA COMMENTS:							
This WA adds 150 h	nours for HGL to com	olete the RI/FS.					
6. APPROVALS							
Contractor Signatures:			EPA Si	gnatures:			
Site Manager/Firm		Date		nnie M. Davis , Ext. 4 Assignment Manager	1-3230		07-15-2015 Date
Program Manager/Firm		Date		kal Shabazz, Est. 4-3 ect Officer	281		07-15-2015 Date
Approved As _XSubmitted Chang	Approved With Not ges Approved		Signature	of Contracting Office	er, llepi	y (	07/16/15 Date

AMENDME	NT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		CONTRACT ID CODE		PAGE OF PAGES
2. AMENDMEI	NT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	QUISITION/PURCHASE REQ. NO.	5. PR	OJECT NO. (If applicable)
0317		See Block 16C				
6. ISSUED BY	CODE	R3	7. AI	OMINISTERED BY (If other than Item 6)	CODE	
1650 AR	3 RONMENTAL PROTECTION CH STREET LPHIA PA 19103-2029	AGENCY				
8. NAME AND	ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x) <sup>9</sup>	A. AMENDMENT OF SOLICITATION NO.		
11107 SU	DLOGIC INC JNSET HILLS ROAD SUIT JA 20190-5309	E 400	9	B. DATED (SEE ITEM 11)	· · · · · · · · · · · · · · · · · · ·	
			x I	OA. MODIFICATION OF CONTRACT/ORDE EP-S3-07-05	ER NO.	
CODE 10	93942604	FACILITY CODE	_	0B. DATED (SEE ITEM 13) 06/28/2007		
19	VO 24 Z U U 4	11. THIS ITEM ONLY APPLIES TO	1 1			
	numbered solicitation is amended as set for				extended,	☐ is not extended.
		quired) N	et De	crease: MODIFIES THE CONTRACT/ORDER NO. A		9, 430.00 BED IN ITEM 14.
CHECK ONE	.,			NGES SET FORTH IN ITEM 14 ARE MADE		
				ADMINISTRATIVE CHANGES (such as chair TY OF FAR 43.103(b).	nges in pay	ung office,
	C. THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED INTO PURSUANT TO	O AUTHO	PRITY OF:		
	D. OTHER (Specify type of modification	and authority)				
Х	B.2 Work Assignment	s, B.6 Limitation	of Fu	nds Notice		
E. IMPORTAN	IT: Contractor X is not,	is required to sign this document	and retu	n copies to the is	ssuing office	е.
	TION OF AMENDMENT/MODIFICATION	(Organized by UCF section headings	, includin	g solicitation/contract subject matter where i	feasible.)	****
See Iter	m 14 Continuation on	page 3				
.00 100.		page 0				
Continue	ed					
		he document referenced in Item 9A or	10A, as	neretofore changed, remains unchanged an	d in full for	ce and effect.
	ND TITLE OF SIGNER (Type or print)			A. NAME AND TITLE OF CONTRACTING		
			T	iffany Gillespie		
15B. CONTRA	ACTOR/OFFEROR	15C. DATE SIGNED	1	B. UNITED STATES OF AMERICA	0.000	16C. DATE SIGNED
	(Signature of person authorized to sign)		C	(Signature of Contracting Officer)	sgrid	~ \ \ \UT/23//5

Previous edition unusable

NSN 7540-01-152-8070

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

CONTINUE TION OUTET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE (	)F
CONTINUATION SHEET	EP-S3-07-05/0317	2	4

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTIT		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Change Item 0062 to read as follows(amount shown is the obligated amount):				
0062	De-obligate bulk funds (699,430) Administrative correction to accounting data Funds will be re-obligated on the next Modification				-699,430.0
	Accounting Info: 14-T-3ASOP-303DD2-2505-03WQWQ00-C001-143ASB1031-00 1 BFY: 14 Fund: T Budget Org: 3ASOP Program (PRC): 303DD2 Budget (BOC): 2505 Job #: 03WQWQ00 Cost: C001 DCN - Line ID: 143ASB1031-001 Funding Flag: Complete Funded: -\$699,430.00				
		*			

#### **Modification 317**

## **Item 14 Continuation**

- 1. The purpose of this modification is to de-obligate funds and to issue Revision 16 to Work Assignment 050TATA03L2.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 313	Changes Under This MOD	Total Funding
Term Form Segment			
Estimated Cost	\$ Trans	tion (b	\ //\ -
Fixed Fee	Exemp	CTOIL (D	) (4)
Total	\$51,824,272.40	-\$699,430.00	\$51,124,842.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION	\$					
Project Name:Atlantic V Activity:Technical Date:07-20-2015 (Contracting Officer Use O 2. DESCRIPTION OF A	Assistance Contractorinly)	Contractor:_ EPA Contract No or Control No	EP-S3-070		Revision 1	50TATA03L2 No.: 16 (Si	xteen)
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Appro  — WP Disapproval  — Final WP Approv  — Amendment to Fi WP Approval  . Approve change in scope, or budget . Approve additional	al nal LOE,	Technical Dire     Memorandum     Details on scope,     schedule     Minor shift withi     (no change in \$/I         Change WAM     Set or revise ex-     limit (EL)	budget, or n SOW LOE)	. Fund appro- — WA Cloon . Notify concloseout to the conclose of the conclose	seout Notification  ask after final invoice  Extend the Period of
3. BUDGET INFORMA	rion I						
Completion WATerm WA						Not to Be Exceeded (\$)*  264,319  0  264,319	
4. WA COMPLETION I	DATE Current: 12-3	31-2015	Revi	sed:			
5. EPA COMMENTS: This amendme	ent adds 300 LOE hour	rs to continue on-go	ing activ	vities.			
6. APPROVALS							
Contractor Signatures: Site Manager/Firm Program Manager/Firm		Date Date	/s/ <u>Harr</u> Work A	gnatures:  Ty Steinmetz  Ssignment Manager  Al Shabazz  Imental Engineer			7-20-2015 Date 07-20-2015 Date
X Approved As A Chang	pproved With Not es Approved		Signature d	fting K	Siller	ř	@ 7/23/15 Date

AMENDME	NT OF SOLICITATION/MODIFIC	ATION OF CO	NTRACT		1. CONTRACT ID CODE		PAGE OF PAGES
2. AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE (	DATE	4. REC	UISITION/PURCHASE REQ. NO.	5. PRC	1 10  OJECT NO. (If applicable)
0318		See Bloc	k 16C	PR-F	3-15-00406		
6. ISSUED BY	CODE	R3		7. AD	MINISTERED BY (If other than Item 6)	CODE	
1650 AR	3 RONMENTAL PROTECTION CH STREET LPHIA PA 19103-2029	AGENCY					
8. NAME AND	ADDRESS OF CONTRACTOR (No., street	t, county, State and 2	ZIP Code)	(x) 9A	AMENDMENT OF SOLICITATION NO.		
11107 St	DLOGIC INC UNSET HILLS ROAD SUIT VA 20190-5309	E 400			DATED (SEE ITEM 11)		
KIBTON V	20190 3309			x 10 E	A. MODIFICATION OF CONTRACT/ORDER N 2-S3-07-05	O.	
				10	B. DATED <i>(SEE ITEM 13)</i>		
CODE 19	3942604	FACILITY CODI	Ē ,	C	6/28/2007		
		11. THIS ITE	M ONLY APPLIES TO A	MEND	MENTS OF SOLICITATIONS		
Items 8 and separate let THE PLACE virtue of this to the solicit	115, and returning co tter or telegram which includes a reference E DESIGNATED FOR THE RECEIPT OF s amendment you desire to change an offe tation and this amendment, and is received	pies of the amend e to the solicitation OFFERS PRIOR <sup>-</sup> er already submitte d prior to the open	ment; (b) By acknowled and amendment numb FO THE HOUR AND Do ed, such change may be	lging re ers. FA ATE SP e made	on or as amended, by one of the following met ceipt of this amendment on each copy of the of ILURE OF YOUR ACKNOWLEDGEMENT TO ECIFIED MAY RESULT IN REJECTION OF YOU by telegram or letter, provided each telegram or	fer subm BE REC OUR OF	nitted; or (c) By CEIVED AT FFER. If by
12. ACCOUNT	FING AND APPROPRIATION DATA (If rec	quired)	Net	Inc	rease: \$6	599,	430.00
see scii		MODIFICATION OF	CONTRACTS/ORDER	SITM	ODIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBE	ED IN ITEM 14.
CHECK ONE		CT/ORDER IS MC H IN ITEM 14, PUI	DDIFIED TO REFLECT RSUANT TO THE AUT	THE AL	SES SET FORTH IN ITEM 14 ARE MADE IN TO MINISTRATIVE CHANGES (such as changes 'OF FAR 43.103(b).		
v	· · · · · ·	• •	aitation of	Func	la Notico		
E. IMPORTAN	B.2 Work Assignments  T: Contractor X is not.	· <del>·</del>	sign this document and			a office	
14. DESCRIP DUNS Nur	TION OF AMENDMENT/MODIFICATION		-		solicitation/contract subject matter where feasi		
		he document refer	enced in Item 9A or 10,	16A.	retofore changed, remains unchanged and in for NAME AND TITLE OF CONTRACTING OFFI Efany Gillespie		
15B. CONTRA	ACTOR/OFFEROR		15C. DATE SIGNED	16B.	UNITED STATES OF AMERICA		16C. DATE SIGNED
	(Signature of person authorized to sign)				(Signature of Contracting Officer)	ئىنى	8 08/06/15
NON 75 45 5 :						TÁNDA	DD EODM 30 (DEV. 40.93)

NSN 7540-01-152-8070 Previous edition unusable STÁNDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE (	OF.
CONTINUATION SHEET	EP-S3-07-05/0318	2	10

NAME OF OFFEROR OR CONTRACTOR
HYDROGEOLOGIC INC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
(A)	(B)	(0)	(D)	(E)	(E)
	Add Item 0073 as follows:				
0073	Bulk funds: \$699,430				699,430.0
1073	Obligated Amount: \$699,430.00				033,1000
	Accounting Info:				
	14-T-3AS0P-303DD2-2505-03WQWQ00-C086-153ASB1020-00				
	1 BFY: 14 Fund: T Budget Org: 3ASOP Program (PRC): 303DD2 Budget (BOC): 2505 Job #: 03WQWQ00				
	Cost: C086 DCN - Line ID: 153ASB1020-001				
	Funding Flag: Partial				
	Funded: \$699,430.00				

#### **Modification 318**

## **Item 14 Continuation**

- 1. The purpose of this modification is to obligate funds and to issue Revision 42 to Work Assignment 006RICO032C, Revision 13 to Work Assignment 027RIFS0312 and Revision 18 to Work Assignment 052RICO03DR.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 317	Changes Under This MOD	Total Funding
Term Form Segment			
Estimated Cost	\$T. sz o mm	tion (h)	(//\
Fixed Fee	Exemp	tion (b)	) (4)
Total	\$51,124,842.40	\$699,430.00	\$51,824,272.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT							
Project Name: <u>Jackson</u>	Ceramics, Inc.	Contractor: HGL			WA No	No.: 006RICO032C	
Activity: RI/FS		EPA Contract No	EP-S3-0	7-05	Revision	n No.: 42 (Forty-Two)	
Date: 08-05-2015		Contractor Control No.			Modific	ation No.: 318	
					(Contrac	cting Officer Use Only)	
2. DESCRIPTION OF A	CTION						
_ New WA	X WA Amendment	Partial WP Ap	proval	Technical Di	rection	Incremental Funding	
(need WP for the WA)	(need revised WP and/or	r WP Disapprov	al al	Memorandur	n	. Fund approved WP	
. Attach SOW	cost estimate)	Final WP App	roval	. Details on scope	e, budget,	WA Closeout Notification	
including schedule	. Change in LOE or	Amendment to	Final	or schedule		. Notify contractor to initiate	
. Designate WAM	scope by task	WP Approval		. Minor shift within	n SOW	WA closeout task	
	. Add additional tasks or	. Approve change in	n LOE,	(no change in \$	/LOE)	. Revise EL after final invoice	
	funds for increased	scope, or budget		. Change WAM		Other	
	activity	. Approve additiona	ıl tasks	_X_ Set or revi	se		
				expenditure limit	(EL)		
3. BUDGET INFORMAT	TON						
Completion WA	_X_ Term WA	Approved W	ork Plan i	Budget	Expendi	iture Limits Not to Be Exceeded	
Total F	unding Received (\$)	LOE		(\$)*	LOE	(\$)*	
		Term WAs Only		-		Term WAs only	
Previous Total		24,879_		2,968,520	24,87	2,844,207	
This Action		0		<u> </u>	8	08,000_	
New Total		24,879		2,968,520	_24,95	2 2,852,207	
		* Includes fees			* Includes	fees	
Funding Category: Bu	ılk Funding						
Activity Code: RICO	S/SID: <u>032C</u>						
4. WA COMPLETION D	DATE Current:	03-31-2016		Revised:			
5. EPA COMMENTS:		a washintan and post oot	imata - Di	loaco coo attached (	statement of	work (SOW)	
The amendment authoriz	es the contractor to submit	a workplan and cost est	imate - Pi	lease see allacheu :	statement of	work. (OOW).	
6. APPROVALS							
Contractor Cianations			EDV 6:	gnatures:			
Contractor Signatures:				gata.00.			
Site Manager/Firm		Date	/s/ s	Stephen Tyahla		08-05-2015	
Site Manager/ Firm			Work Assignment Manag		anager	Date	
Program Manager/Firm Date		1	Phone Number	ū	215-814-3268		
rogram wanayer/ Mill		20.0					
			/s/	Mikal Shabazz		08-05-2015	
				Project Officer		Date	
				Phone Number		215-814-2997	
			1		1 00	2551 1	
X Approved AsA	Approved With Not		de	Hom 1/2	/DUV	5 per 08/06/15	
	nanges Approved		Signatu	re of Contracting Of	ficer	Date	

# SCOPE OF WORK FOR REVISION TO WORK ASSIGNMENT <u>006RICO032C</u> OF EPA CONTRACT NO. EP-S3-07-05 (HYDROGEOLOGIC, INC.)

# TREATABILITY STUDY UNDER REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)

Site: Jackson Ceramix Superfund Site

Location: Jefferson and Clearfield Counties, Pennsylvania

Contract No: EP-S3-07-05 (HydroGeoLogic, Inc. ["HGL"])

Work Assignment No: 006RICO032C

#### **PURPOSE**

The purpose of this Work Assignment revision is to specify the treatability study work to be performed under **Task 8** of **Work Assignment (WA) No. 006**RICO032C. The purpose of the treatability study will be to assess the feasibility of using soil amendments to stabilize lead contamination in Site wetlands sediment/soil in a manner that significantly reduces lead bioavailability. The work will include preparation of a treatability study work plan, performance of both bench scale and field/pilot scale treatability studies, and reporting the results. The results will inform preparation of the Site Feasibility Study ("FS"), Task 12 of the WA.

#### TREATABILITY STUDY/PILOT TESTING (TT)

**WBS: 8** 

The Contractor is to perform the following treatability study/pilot testing tasks:

- 1) Treatability Study Work Plan: This task correlates to Subtask 8.1 of HGL's Work Assignment Work Plan, Revision 1 of December 7, 2007. Contractor is to prepare a Treatability Study ("TS") Work Plan for the performance of both bench-scale and field pilot-scale treatability studies to assess the performance of humic acid and apatite-based (e.g., EnviroBlend®) soil amendments to stabilize and lower the bioavailability of lead (and concomitantly other metals) in Site wetland sediments and soils. The TS Work Plan shall be provided in draft form and then finalized after EPA, including the Biological Technical Assistance Group ("BTAG"), review and comment on the draft. The TS Work Plan should include or be accompanied by, as appropriate, any necessary updates or addenda to the existing project Sampling and Analysis Plan ("SAP"), Data Management Plan, and project-specific Health and Safety Plan ("HASP"). The TS design should examine, at a minimum, these factors and methods:
  - a. Effectiveness of amendments in stabilizing/reducing the bioavailability of lead over a range of lead concentrations that adequately bound those Site concentrations of lead contained in sediment and soil that is not predominantly ceramic waste material. (For purposes of this scope, it is presumed that material that is predominantly ceramic waste material will be remediated through excavation and appropriate disposal.)
  - b. Bioavailability—assessed via in vitro method for bench scale work, and in vitro and earthworm extraction during field/pilot scale study.
  - c. Depths of effective treatment for the amendment/application method combinations

evaluated.

- d. Amendment forms and application methods to be evaluated should include, but not be limited to, the following in-situ methods:
  - i. Surface spray of liquid form amendments to saturate sediment/soil; and
  - ii. Application of solid form amendment(s) followed by soil mixing (e.g., disking)
- e. Commercial availability of equipment and amendments for full-scale use and estimated costs.
- 2) <u>Perform Treatability Study</u>: This task correlates to Subtasks 8.2, 8.3 and 8.4 of HGL's Work Assignment Work Plan, Revision 1 of December 7, 2007. The contractor shall implement the work described in the approved TS Work Plan. For cost-estimating purposes, the contractor should assume the treatability study scheme outlined in Tables 1 and 2.

Table 1. Bench Scale	Dosing			
Matrix indicates replicates	to be analyzed for bio	accessible lead	by in vitro te	chnique <sup>1</sup> .
	Language Committee of the Committee of t	Targeted Soil L	ead (mg/kg) coi	ncentractions <sup>2</sup>
Soil Amendment & Application Method	Amendment Concentration (ppm)	250	500	1000
	250	8		
humic acid liquid saturation	500		8	
	to be determined <sup>3</sup>		8	
apatite liquid saturation <sup>4</sup>	to be determined <sup>3</sup>			8
	to be determined <sup>3</sup>		8	
apatite solid with mixing <sup>4</sup>	to be determined <sup>3</sup>			8
control	None	8	8	8
NOTES:				
1-In vitro technique for bioac	cessibility to be determi	ned during work	plan developm	ent; for costing
purposes presume EPA Met	autoria de la composition della			
2-No soil/sediment pH adjust	ments—soil samples sho	ould represent e	xisting in-field	conditions.
Target soil concentrations v	27. 27. 27. 27. 27. 27. 27. 27. 27. 27.	~~~~	60000000000000000000000000000000000000	
3-Amendment concentration	s are to be based on ven	dor recommend	ations/operatir	g procedures.
4-Apatite-based amendment	, e.g., EnviroBlend®			

Table 2. Field Scale App	lication					
		Rour	id #1	Round #2		
Soil Amendment & Application Method (dosages based on bench scale results)	Soil Depth (inches)	Lead Bioaccessibility Analysis (soil extraction) <sup>2</sup>	Earthworm Lead Bioaccumulation Analysis <sup>3</sup>	Lead Bioaccessibility Analysis (soil extraction) <sup>2</sup>	Earthworm Lead Bioaccumulation Analysis <sup>3</sup>	
	6	8	4	8	4	
humic acid or apatite liquid <sup>1</sup>	12	8		8		
	6	8	4	8	4	
	12	8		8		
apatite with mixing <sup>1</sup>	24	8		8		
NOTES:	***************************************			18191111111111111111111111111111111111		
1-two rounds of liquid saturation	/ soil mixing					
2-In vitro technique for bioaccess	ibility to be det	ermined during wo	k plan developme	nt; for costing		
purposes presume EPA Method	1340.					
3-Invertebrate (earthworm) tissu	e analysis for le	ad using Method CL	P ILM05.3/ ILM05.4			
Assumptions:						
humic-metal complexes will be s	tabilized in plan	its				
apatite-metal complexes will be	unavailable in s	oil				

3) Treatability Study Evaluation Report: This task correlates to Subtask 8.5 of HGL's Work Assignment Work Plan, Revision 1 of December 7, 2007. Contractor shall provide a Treatability Study Evaluation Report in draft form and then final form after EPA, including the BTAG (Biological Technical Assistance Group), review and comment on the draft. The report will provide the results of for each amendment/application method combination and provide a comparative assessment of effectiveness, implementability, and cost. The report will also evaluate full scale application of those amendment/application methods deemed to be viable including a sensitivity analysis identifying the key parameters affecting full-scale implementation (e.g., field condition variability, logistics, potential negative physical impacts to vegetation and terrain and how they might be mitigated).

#### Schedule

Deliverable	No. of Copies <sup>2</sup>	Due Date
Draft Treatability Study Work Plan <sup>1</sup>	3	45 days from award of WA Revision
Final Treatability Study Work Plan	3	30 days from receipt and resolution of EPA & BTAG comments
Perform Treatability Study		In accordance with the approved TS Work Plan
Draft TS Evaluation Report	3	In accordance with the approved TS Work Plan
Final TS Evaluation Report	3	30 days from receipt and resolution of EPA & BTAG comments

#### SCHEDULE NOTES:

- 1. TS Work Plan is to include, as necessary, modification of or addenda to existing project HASP, and SAP.
- 2. Documents shall also be provided in electronic (\*.pdf) format; any maps produced using ArcMap shall be also

provided as geospatial PDFs (e.g., sample locations, locations of field test plots).

#### **Information Resources:**

The Andersons Humic Solutions (<a href="http://andersonshumates.com/">http://andersonshumates.com/</a>) [have expressed interest in a trial]

 $\underline{http://www.arbico-organics.com/product/2659/organic-soil-conditioners?kpid=1328401\&gclid=CL-v8-r45MUCFdSQHwod8KMA3g}$ 

http://www.humicgrowth.com/humicacid.htm

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMEN	1. WORK ASSIGNMENT (WA) INFORMATION							
Project Name: McAdoo A	Associates	Contractor: HGL		WA No.: 027RIFS0312				
Activity: FFS		EPA Contract No1	EP-S3-070	25	Revision N	No.: 13 (Thirteen)		
Date: 07-30-2015 (Contracting Officer Use Contracting Officer Use Contracting Officer Use Contractions Officer Use Contractions Officer Use Contractions Officer Use Contractions Officer Use Contractions Officer Use Contr		Control No.			Mod	lification No.: 318		
2. DESCRIPTION OF A	CTION							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	WP Approval	Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM  WAMP Approval Prove change in LOE, pe, or budget  Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM  X Set or revise expenditur limit (EL)		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX_ Other Extend the Period of Performance		
3. BUDGET INFORMA	TION							
Completion WA	Term WA	Approved V	Vork Plan	Budget	Exper	nditure Limits Not to Be Exceeded		
Total Funding Receiv	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs	(\$)*		
Previous Total		3163	454.	<u>290</u>	3,163	•		
This Action		150	_20,0	000	150			
New Total		<u>3,313</u> <u>474,290</u>		3,313 * Includes f				
Funding Category: Bu	ılk Funding	* Includes fees			•••			
Activity Code: RIFS S/	SID: <u>0312</u>							
4. WA COMPLETION	DATE Current: 12-3	1-2015	Rev	ised: 12-31-2016		ALL VIEW PROPERTY OF THE PROPE		
5. EPA COMMENTS:								
This amendment add	s LOE hours & dollars f	or the Contractor to	conduct	the following:				
<ul> <li>Complete 1 sampling event of all monitoring wells by October 15, 2015, and 1 sampling event of all monitoring wells by October 15, 2016.</li> <li>Submit samples to an approved EPA CLP laboratory for TCL volatiles, TCL semivolatiles, and TAL metals. Standard analytical turnaround times are to be requested.</li> <li>Submit brief letter report with data summary within 45 days of receipt of validated analytical data following each sampling event.</li> <li>Investigation-derived waste is to be disposed of within 45 days of receipt of validated analytical data following each sampling event.</li> <li>The period of performance is extended to December 31, 2016.</li> </ul>								
6. APPROVALS		- Address - Addr	l .					
Contractor Signatures:			EPA S	ignatures:				
Site Manager/Firm Date					7-29-2015 Date			
Program Manager/Firm Date				cal Shabazz mental Engineer	0	7-29-2015 Date		
Approved As X Approved With Not Submitted Changes Approved Signature of Contracting Officer,								

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: <u>Chem-Fab</u>		Contractor: HGL  EPA Contract No. EP-S3-07-05		WA No.: <u>052RICO03DR</u> Revision No.: <u>18 (Eighteen)</u>			
Date: <u>08/03/2015</u>		Contractor Control 1	No			ation No.: <u>318</u> cting Officer Use Only)	
2. DESCRIPTION OF A	CTION						
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	w WA WP for the WA) ch SOW including dule		val Final LOE,	Technical Direction     Memorandum     Details on scope, budget, or schedule     Minor shift within SOW (no change in \$/LOE)     Change WAM     X Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other	
3. BUDGET INFORMA	TION				1		
Completion WA X  Total Funding Receive		Approved V LOE Term WAs Only	d Work Plan Budget (\$)*		Exper LOE Term WAs	diture Limits Not to Be Exceeded (\$)* only	
Previous Total		5,681	1,240,931		5,4	1,216,102	
This Action	<u> </u>	48	24,965			4824,965	
New Total  Funding Category: Bulk	Funding	* Includes fees	<u>1,265,896</u>		* Includes f	<u>1,241,067</u> ees	
Activity Code: RIFS							
4. WA COMPLETION I	DATE Current: 06-	30-2016	Revi	sed:			
5. EPA COMMENTS:  This WA amendment requires the contractor to:  Conduct geophysics on residential well on North West Street  Conduct packer testing on well  Convert residential well into a monitoring well							
6. APPROVALS			ı	***************************************			
Contractor Signatures:			EPA Si	gnatures:			
Site Manager/Firm Date		Date	/s/ <u>Huu Ngo</u> Work Assignment Manager Phone Number		ger	08-03-2015 Date 215-814-3187	
Program Manager/Firm Date		Date	/s/ Mikal Shabazz Project Officer Phone Number			08-03-2015 Date 215-814-3281	
Approved As X Ap Submitted Chang			Left Signature	of Contracting Office	Deper,	(D8/106/1) (Date /	

		1. CONTRACT ID CODE	PAGE OF	E OF PAGES		
AMENDMENT OF SOLICITATION/MODIFIC	TATION OF CONTRACT			1	18	
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REC	QUISITION/PURCHASE REQ. NO.	5. PROJECT NO		
0319	See Block 16C	See	Schedule			
6. ISSUED BY CODE		7. AD	MINISTERED BY (If other than Item 6)	CODE		
REGION 3 US ENVIRONMENTAL PROTECTION 1650 ARCH STREET PHILADELPHIA PA 19103-2029	AGENCY			<u></u>		
8. NAME AND ADDRESS OF CONTRACTOR (No., street	et, county, State and ZIP Code)	(x) <sup>9A</sup>	. AMENDMENT OF SOLICITATION NO.			
HYDROGEOLOGIC INC						
11107 SUNSET HILLS ROAD SUIT RESTON VA 20190-5309	E 400	9B	. DATED (SEE ITEM 11)			
		x 10 E	A. MODIFICATION OF CONTRACT/ORD P-S3-07-05	ER NO.		
		10	B. DATED <i>(SEE ITEM 13)</i>			
CODE 193942604	FACILITY CODE	c	06/28/2007			
	11. THIS ITEM ONLY APPLIE	S TO AMEND	MENTS OF SOLICITATIONS		***************************************	
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an off to the solicitation and this amendment, and is received.	OFFERS PRIOR TO THE HOUR A fer already submitted, such change ad prior to the opening hour and dat	AND DATE SF may be made	ECIFIED MAY RESULT IN REJECTION (	OF YOUR OFFER. If by ram or letter makes refe	rence	
12. ACCOUNTING AND APPROPRIATION DATA (If re	quired)	Net Ind	crease:	\$809,905.0	)	
See Schedule	MODIFICATION OF CONTRACTS/	ORDERS IT M	ODIFIES THE CONTRACT/ORDER NO. A	S DESCRIBED IN ITEM	114.	
13. THIS TIEM ONLY APPLIES TO	MODIFICATION OF CONTRACTOR	ONDENO. 11 W	ODITIES THE SONTING HONDER NO. A			
CHECK ONE A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority	y) THE CHAN	GES SET FORTH IN ITEM 14 ARE MADE	IN THE CONTRACT	•	
B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	CT/ORDER IS MODIFIED TO REF H IN ITEM 14, PURSUANT TO TH	FLECT THE AI IE AUTHORIT	DMINISTRATIVE CHANGES (such as cha Y OF FAR 43.103(b).	nges in paying office,		
C. THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED INTO PURSUAN	T TO AUTHOR	RITY OF:			
D. OTHER (Specify type of modification	n and authority)					
X Unilateral - B.2 Wo	rk Assignments, B.	.6 Limit	tation of Funds Notic	е		
E. IMPORTANT: Contractor X is not,	is required to sign this docum	nent and return	copies to the i	ssuing office.		
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 193942604	I (Organized by UCF section headi	ings, including	solicitation/contract subject matter where	feasible.)		
See Item 14 Continuation						
Continued						
Except as provided herein, all terms and conditions of	the document referenced in Item 9/	A or 10A, as h	eretofore changed, remains unchanged an	nd in full force and effec	i	
15A. NAME AND TITLE OF SIGNER (Type or print)			NAME AND TITLE OF CONTRACTING			
		Ti	ffany Gillespie			
15B, CONTRACTOR/OFFEROR	15C. DATE SIGI		UNITED STATES OF AMERICA	110	C. DATE SIGNED	
		(5	(Signature of Contracting Officer)	200	2/20/	
(Signature of person authorized to sign)			(Signature of Contracting Officer)	* y	<u> </u>	

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243 REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-S3-07-05/0319

PAGE 2

18

OF

NAME OF OFFEROR OR CONTRACTOR HYDROGEOLOGIC INC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	1 1	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Add Item 0074 as follows:				
0074	HGL:EP-S3-07-05				804,905.0
	Bulk funds				
	Requisition No: PR-R3-15-00463				
	Accounting Info: 15-T-3ASOP-303DD2-2505-C086-153ASB1028-001 BFY:				
	15 Fund: T Budget Org: 3ASOP Program (PRC):		1 1		
	303DD2 Budget (BOC): 2505 Job #: 03WQWQ00 Cost:				
	C086 DCN - Line ID: 153ASB1028-001				
	Funding Flag: Partial				
	Funded: \$500,063.00				
	Accounting Info:				
	14-T-3AS0P-303DD2-2505-C086-153ASB1028-002 BFY:		1 1		
	14 Fund: T Budget Org: 3ASOP Program (PRC):				
	303DD2 Budget (BOC): 2505 Job #: 03WQWQ00 Cost:				
	C086 DCN - Line ID: 153ASB1028-002				
	Funding Flag: Partial				
	Funded: \$1,793.00		1 1		
	Accounting Info: 14-TD-3ASOP-303DD2-2505-C086-153ASB1028-003 BFY:				
	14 Fund: TD Budget Org: 3ASOP Program (PRC):				
	303DD2 Budget (BOC): 2505 Job #: 03WQWQ00 Cost:				
	C086 DCN - Line ID: 153ASB1028-003				
	Funding Flag: Partial				
	Funded: \$303,049.00				
	Add Item 0075 as follows:				
0075	HGL Inc. EP-S3-0705				5,000.
	Kane and Lombard OU2				
	RI/FS oversight				
	Obligated Amount: \$5,000.00				
	Requisition No: PR-R3-15-00413				
	Accounting Info:				
	15-TR2B-03S0XB2-303DD2-2505-03B2BD02-C002-1503SK1				
	47-001 BFY: 15 Fund: TR2B Budget Org: 03S0XB2	1			
	Program (PRC): 303DD2 Budget (BOC): 2505 Job #:				
	03B2BD02 Cost: C002 DCN - Line ID: 1503SK1047-001				
	Funding Flag: Partial Funded: \$5,000.00				
	randea. \$3,000.00				
			- 1		

## **Modification 319**

#### **Item 14 Continuation**

- 1. The purpose of this modification is to obligate funds and to issue Revision 10 to Work Assignment 022RICO03H6, Revision 14 to Work Assignment 031TATA0378, Revision 17 to Work Assignment 044RICOA3Z4 and Revision 13 to Work Assignment 047ROBE03B2.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Changes Under This Thru MOD 318 MOD		Total Funding
Term Form Segment			
Estimated Cost	\$Exempt	tion (b)	(4) -
Fixed Fee			\ <u> </u>
Total	\$51,824,272.40	\$809,905.00	\$52,634,177.40

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: Standard C Activity: RI/FS Date: 08-19-2015 (Contracting Officer Use C 2. DESCRIPTION OF A	only)	Contractor: EPA Contract No Control No		Revision	<u>H6</u> No.: <u>10 (Ten)</u> lification No.: <u>319</u>		
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approduced — WP Disapproval — Final WP Approval — The Land To Final WP Approval — Approve change in scope, or budget — Approve additional	Memorandum Details on scope, budget, or schedule Minor shift within SOW (no change in \$/LOE) Change WAM LOE,  X Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX Other Extend the Period of Performance		
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA	Term WA	Approved W	ork Plan Budget	Exper	nditure Limits Not to Be Exceeded		
Total Funding Receive	ed (\$)	LOE Term WAs Only	(\$)*	LOE Term WAs	(\$)* only		
Previous Total		7,550	1,750,425		0 1,715,425		
This Action		1,384	0	1,38	40		
New Total		8,934	1,750,425	* Includes f			
Funding Category: Bull	c Funding	_* Includes fees		* includes i	ces		
Activity Code: RIFS S/S	SID: <u>03H6</u>						
4. WA COMPLETION	DATE Current: 12-3	1-2015	Revised: 12-31-2	016			
5. EPA COMMENTS: This work assignment amendment is being issued on a unilateral basis in accordance with the contract. If the contractor concurs with the cost and LOE hours, the contractor is required to return a signed copy of the work assignment form within 5 working days after receipt. If the contractor does not concur, this must be noted on the work assignment form.  This amendment adds LOE hours to complete the following tasks:  - Complete monitoring well sampling event of Potomac aquifer wells in September 2015 and September 2016 - Adds contract-specified project management hours for remaining 20 months of work assignment (12 hours/month)  - Complete data analysis/usability  - Address EPA comments to draft RI Report  - Address EPA comments to draft FS Report							
6. APPROVALS							
Contractor Signatures:			EPA Signatures:				
Site Manager/Firm		Date	/s/ <u>Brad White</u> Work Assignment Ma	nager	08-19-2015 Date		
Program Manager/Firm		Date	/s/ Mikal Shabazz Environmental Engine	er )	08-19-2015 Date		
Approved AsX A Submitted Chang	Approved With Not ges Approved	Signal	sure of Contracting Office	t, Kbl	Inper 08/20/15		

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC						
1. WORK ASSIGNMENT (WA) INFORMATION							
				72D May 001 777 77	270		
	ymark Co						
·	al Assistance						
	5 Contractor	Control No.		Modification	л No.: <u>319</u>		
(Contracting Office				- WALES			
2. DESCRIPTION OF	1				T		
New WA (need WP for the WA) .Attach SOW including schedule .Designate Contracting Officer Representative (COR)	WA Amendment (need revised WP and/or cost estimate) .Change in LOE or scope by task .Add additional tasks or funds for increased activity	Partial WP ApprovalFinal WP ApprovalFinal WP Approval Amendment to Final WP Approval .Approve change LOE, scope, or budget .Approve additio tasks	Me . Det by al . Min sin . Chair expe	echnical Direction emorandum tails on scope, udget, or schedule for shift within OW no change in /LOE) ange WAM et or revise enditure limit EL)	Incremental Funding . Fund approved WP WA Closeout Notification .Notify contractor to    initiate WA    closeout task .Revise EL after    final invoice _X_ Other Extend the Period of Performance		
3. BUDGET INFORMA	TION			· ·	Inter-tener		
Completion WA	Term WA	Approved Work Plan Budget		et Expend	diture Limits Not to Be Exceeded		
Total Funding Received (\$)		LOE (\$)* Term WAs Only			LOE (\$)* Term WAs only		
Previous Total	0	1695	384,15	1699	384,157		
This Action	0	324	85,92	21 324	85,921		
New Total	0	2019		9 470,078			
Funding Category: Activity Code: T	Bulk Funding ATA SID:0378	*	inciudes fee	es ^ includ	des Tees		
4. WA COMPLETION	DATE Cui	crent: 09-30-2015	5 Revis	ed: <u>12-31-2015</u>			
5. EPA COMMENTS: This work assignment amendment is being issued on a unilateral basis in accordance with the contract. If the contractor concurs with the cost and LOE hours, the contractor is required to return a signed copy of the work assignment form within 5 working days after receipt. If the contractor does not concur, this must be noted on the work assignment form.							
This WA extends the POP and requires the contractor to increase the depth of two wells (MW-05 and MW-09) to a depth of 200 feet (from 130 feet approx.).							
EPA expects to receive reports regarding geophysical conditions at the wells, in situ sampling with a portable GC, similar conditions and expectancies to the previous drilling in 2015. This will be considered part of the project for the Raymark Superfund Site, were wells were drilled to investigate conditions near the Site. Any findings for the drilling shall be incorporated into the Final report for ongoing project.  EPA requests a Conceptual Site Model to be developed, where geologic conditions, plume of contaminants, direction of groundwater are presented in a diagram intended for the general public.							
Please see attached SOW.							
6. APPROVALS							
Contractor Signatu	ares:		EPA Signat	cures			
Site Manager/Firm		Date	Jose Redmor Work Assign	nd nment Manager	08-18-2015 Date		
Program Manager/Firm Date Mikal Shabazz Date Environmental Engineer				08-18-2015 Date			
_Approved As <u>X Ap</u> Submitted Ch		roved Signa	ture of Cont	racting Officer	OB) 20 15		
EP-S3-07-05/031		Page 5					

# RAC II NATIONAL MODEL STATEMENT OF WORK

### FOR TECHNICAL ASSISTANCE (TA)

Raymark Superfund Site, Borough of Hatboro, Montgomery County, Pennsylvania

August 04, 2015

#### INTRODUCTION

#### PURPOSE:

The purpose of this work assignment is to obtain contractor support to drill deeper two (2) of the recently drilled wells associated with the Raymark Superfund Site groundwater investigation. The wells to be drilled are MW-05 and MW-09 in the Borough of Hatboro, PA. In addition the contractor will also develop a Conceptual Site Model (CSM) that will represent current conditions at the Raymark Superfund Site (Site). This Statement of Work (SOW) sets forth the framework and requirement for implementing the required technical assistance at the Site.

#### BACKGROUND INFORMATION:

The Raymark Site is a 7-acre operating facility located on Jacksonville Road between Tanner and Markley Avenues in Hatboro, Montgomery County, Pennsylvania. The Site is located in an industrial area approximately 100 feet from the nearest residence. The Site was historically used to treat electroplating wastes and included a metal cleaning degreasing operation located in the rear section of the manufacturing building. A solvent storage tank was formerly located immediately outside this area.

The public water supply was operated by the Hatboro Borough Water Authority (HBWA), which pumped groundwater from twelve large capacity wells. In late 1979, a series of environmental samples collected by EPA, the former Pennsylvania Department of Environmental Resources (PADER), now the Pennsylvania Department of Environmental Protection (PADEP), and the Hatboro Borough Water Authority (HBWA), revealed the presence of TCE and several other volatile organic compounds (VOCs) in 8 of 16 public supply wells (twelve of a large capacity and four of lesser capacity). As a result, HBWA removed the affected wells from routine operation and began to supplement its water needs from an interconnection with a neighboring water company.

EPA installed a monitoring well on the Site in 1981 as part of an effort to investigate regional groundwater contamination. In 1982, soil samples were collected from the area of the former TCE storage tanks and from an area where former lagoons were located. From that point on, several investigations which included the determination of the relative hazards posed by the

Site, installation and sampling of five monitoring wells along the railroad tracks located west of the Site, sampling of other nearby monitoring wells and abandoned water supply wells, additional on-site soil sampling and extensive sampling of the soil and bedrock on-site were done. Investigation activities were completed by 1985 and were sufficient for the United States to file a Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) and Resource Conservation and Recovery Act (RCRA) complaint against Raymark Industries, Inc, on behalf of EPA. Reimbursement for past and future remedial action response costs was requested. Before a decision was rendered, a settlement was reached between the United States and the Defendants in late 1988. The terms of the settlement were documented in a Consent Decree that was judicially entered in February 1989.

The Raymark Site was proposed for the National Priorities List (NPL) in June 1988 and was promulgated on the NPL in October 1989. Public water is currently supplied by Aqua America Inc. ("Aqua"). There are no known residential drinking wells impacted by the Raymark Site.

After reviewing the results of the RI/FS, EPA issued two Record of Decisions (RODs) for this Site. The first ROD for Operable Units (OU) 2 & 3 was signed on September 28, 1990. The second ROD for Operable Unit 1 was signed on December 30, 1991. The contaminants of concern in both RODs are volatile organic compounds, primarily Trichloroethene (TCE).

Based on the remedial design, the remedies were organized into the following operable units. OU-1 refers to On-site Soil (soil and source control). OU-2 makes refers to off-site ground water (drinking water supply wells H-14 and H-17). OU-3 makes refers to on-site groundwater (groundwater treatment system). To address the contamination, remedial alternative objectives (RAOs) as established in the RODS are as follows:

#### Remedial Alternative Objectives (OU2 & OU3) for Groundwater

- 1) Protect public health and the environment.
- 2) Reduce further migration of contaminated groundwater from the Site towards public supply wells.
- 3) Contain the contamination within the currently affected area.
- 4) Reduce risk resulting from release of contaminants into the air from treatment devices.
- 5) Contribute to the restoration of the aquifer to its beneficial use, and further to background quality, if practicable.

#### Remedial Alternative Objectives (OU1) for Soils

- 1) Protect public health and the environment.
- 2) Reduce the amount of contamination in subsurface soil and bedrock such that leaching of contamination to groundwater is minimized.

- 3) Minimize leaching of residual contamination to the groundwater such that levels of TCE in groundwater do not exceed 5 parts per billion (ppb) or background, whichever is lower, as defined in the ROD for OU2 and OU3.
- 4) Reduce risk resulting from the release of contaminants into the air from treatment devices.

The cleanup goal for remediation of the Site soils was determined to be 50 ppb TCE. This number was calculated as the maximum amount of TCE allowable to prevent further migration of contamination from the soil into the groundwater. In an effort to restore the aquifer to beneficial use, the remediation system implemented in each of the alternatives was intended to operate until the contaminant levels reach MCLs, non-zero Maximum Contaminant Level Goals (MCLG s), or background, whichever are lower.

In June 2007, EPA issued a Draft Explanation of Significant Differences (ESD) for public comment. In September 2007, the Draft ESD became final. The ESD modified the remedy by eliminating the requirement for wells H14 and H17, associated with OU2 and OU3, to be operated and treated by the Hatboro Borough Water Authority and by requiring institutional controls in connection with the on-Site treatment system as well as contaminated groundwater attributable to the Site.

A Five-Year Review for the site was completed in September 2008. Vapor intrusion was identified as a possible route of exposure and considered an issue. A recommendation was issued to expand the data about shallow water concentration of contaminants associated with the contamination from the Site; and if necessary, study the possibility of VI associated with the Site contamination. Shallow wells were installed down gradient of the Site and information gathered from them indicated that there is a possibility of VI occurring at buildings down gradient to the site.

#### **GENERAL REQUIREMENT:**

The contractor shall furnish personnel, services, materials and equipment to provide the required technical assistance in accordance with this Statement of Work.

The contract work breakdown structure (WBS) shall be used for project scoping, scheduling, and technical and cost tracking and reporting under this work assignment/task order.

The summary of major deliverables and delivery schedule for this work assignment/task order is specified in Attachment 1.

The work shall be conducted in accordance with the appropriate EPA guidance documents. In all cases, the contractor shall use the most recently issued guidance.

The contractor shall maintain work assignment/task order activity files as specified in the contract and by the Work Assignment Manager (WAM)/Contracting Officer Representative (COR).

The contractor shall communicate at least monthly with the Work Assignment Manager WAM/COR, either in face-to-face meetings or through conference calls. The contractor shall document all decisions that are made in meetings and conversations with EPA. The contractor shall forward this documentation to the WAM/COR within five working days of the meeting or conversation.

EPA will provide oversight of contractor activities throughout the work assignment/task order. EPA review and approval of deliverables is a tool to assist this process and to satisfy, in part, EPA's responsibility to provide effective protection of public health, welfare, and the environment. Acceptance of contractor submittals by EPA does not relieve the contractor from responsibility for the adequacy of the deliverables or their professional responsibilities.

# RECORD KEEPING REQUIREMENT:

Maintain all technical and financial records for technical assistance in accordance with the contract. At the completion of the work assignment/ task order, submit an official record of the technical assistance in both compact disk and a hardcopy to the WAM/COR Officer. Provide the deliverables using electronic media.

#### **USEPA PRIMARY CONTACTS:**

The USEPA primary contact for this work assignment/task order is José R. Redmond Girón, the WAM/COR who can be contacted at (215)814-3019, Fax (215)814-3002, Internet Address redmond.jose@epa.gov. The secondary contact for this work assignment/task order is Christopher Corbett who can be contacted at (215)814-3220, Fax (215)814-3002, Internet Address Corbett.chris@epa.gov. The mailing address is: U.S. EPA Region 3, 1650 Arch Street, Philadelphia, Pennsylvania 19103-2029. The mail code is: 3HS20.

#### WORK ASSIGNMENT/TASK ORDER COMPLETION DATE & PROJECT CLOSEOUT:

At the completion of the work assignment/task order, the contractor shall perform all necessary closeout activities as specified in the contract. These activities include closing out any subcontracts, indexing and consolidating project records and files as required above, and providing a technical and financial closeout report to EPA. The estimated date for completion of all technical activities and closeout activities for this work assignment/task order is December 31, 2015.

#### TASK 1 PROJECT PLANNING and SUPPORT

The contractor shall perform the following activities to initiate and manage the work assignment/task order.

Attend Scoping Meeting. The contractor shall contact the WAM/COR within five calendar days after receipt of the work assignment/task order to acknowledge the receipt of this request. No kickoff meeting is necessary since this is an ongoing project (WA 031TATA0378). It is anticipated that the contractor will update their workplan to accommodate this request.

Update Work Plan or Technical Approach Memo. The contractor shall update and submit an updated work plan or technical approach memo within 10 calendar days after receipt of the work assignment/task order. The contractor shall use information from this SOW, appropriate EPA guidance, and technical direction provided by the EPA WAM/COR as the basis for updating the work plan or technical approach memo. The work plan or technical approach memo shall include a description of project tasks, the procedures and estimated costs to accomplish tasks, project documentation, and project schedule. The contractor shall use their quality assurance/quality control (QA/QC) systems and procedures to assure that the work plan or technical memo and other deliverables are of professional quality requiring only minor revisions. Specifically, the work plan or technical approach memo shall include the following:

- Identification of tasks described in the SOW. Output of this task will be a detailed work breakdown structure of the project.
- The contractor's technical approach to each task to be performed; any information to be produced during and at the conclusion of each task; and a description of the work products that will be submitted to EPA. Information shall be presented in a sequence consistent with the SOW.
- A schedule with specific dates for completion of each required activity and submission of each deliverable required by the SOW. This schedule shall also include information regarding timing, initiation, and completion of all critical path milestones for each activity and deliverable and the expected review time for EPA.
- A list of key contractor personnel providing support on the work assignment/task order.
- Estimated costs for performing work assignment/task order tasks presented at the task level and the overall work assignment/task order level.

Prepare Revised Work Plan or Technical Approach Memo (if necessary). The contractor shall attend a work plan or technical approach negotiation meeting at the EPA Region 3 office. EPA and the contractor will discuss and agree upon the final technical approach, and the costs required to accomplish the tasks outlined in the SOW. The contractor shall prepare and submit a revised work plan or technical approach memo incorporating the agreements made in the negotiation meeting.

Provide Conflict of Interest Disclosure. The contractor shall prepare and submit a conflict of interest disclosure statement that complies with contract requirements with the work plan/cost estimate submittal.

Perform Site-specific Project Management. The contractor shall provide general work assignment/task order management and coordination to implement the work assignment/task order described in this SOW. The contractor shall prepare monthly progress reports in accordance with contract requirements. The contractor shall manage and track costs and prepare and submit invoices. The contractor shall report costs and level of effort (by P-level) for the reporting period as well as cumulative amounts expended to date. Periodically, during the course of the work assignment/task order, the WAM/COR may request actual costs to date by work breakdown structure (WBS) element. For budgeting purposes, the contractor shall assume 2 of these requests.

Track Site-Specific Equipment. The contractor shall manage, track, and report status of site-specific equipment (if any).

Attend Meetings. The contractor shall participate in progress meetings during the course of the work assignment/task order. The contractor shall prepare meeting minutes as requested by the WAM/COR. It should be assumed that the meetings will take place via conference call or in the EPA Region 3 office. For budgeting purposes, the contractor shall assume 1 meeting, with 1 person in attendance, for 2 hours each (excluding travel time) per fiscal year quarter.

Accommodate External Audit. The contractor shall accommodate any external audit or review mechanism that EPA may require.

Evaluate Existing Data and Review Background Documents. The contractor shall obtain, copy, and review available information and evaluate existing documents and data pertaining to the site. The contractor shall obtain the necessary information from the WAM/COR. The contractor shall evaluate the existing data and documents, including but not limited to the following:

- EPA Record of Decision(s)
- EPA Explanation of Significant Differences
- EPA Five-Year Review Report
- Site Health & Safety Plan
- Site Sampling & Analysis Plan
- Site Quality Assurance Project Plan
- Existing and or current groundwater quality data

Coordinate with Emergency Response Teams. The contractor shall coordinate with local and emergency response teams, as necessary.

Attend Training. The contractor shall attend training held by EPA as directed by the EPA WAM/COR.

Update Site-Specific Plans: The contractor shall develop a draft plan for EPA review, then incorporate EPA comments to produce the final plan. The contractor shall update the following site-specific plans, if necessary:

- o Field Sampling Plan (FSP). Prepare a Field Sampling Plan (FSP) that defines the sampling and data collection methods that shall be used for the project. The FSP shall include sampling objectives; sample locations and frequency; sampling equipment and procedures; sample handling and analysis; and a breakdown of samples to be analyzed through the Contract Laboratory Program (CLP) and through other sources, as well as the justification for those decisions. The FSP shall consider the use of all existing data and shall justify the need for additional data whenever existing data will meet the same objective. The FSP shall be written so that a field sampling team unfamiliar with the site would be able to gather the samples and field information required. The contractor shall document any required changes to the FSP in a memorandum to the WAM/COR.
- O Quality Assurance Project Plan (QAPP). The contractor shall prepare a Quality Assurance Project Plan (QAPP) in accordance with EPA QA/R-5 (latest draft or revision). The QAPP shall describe the project objectives and organization, functional activities, and quality assurance/quality control (QA/QC) protocols that shall be used to achieve the desired Data Quality Objectives (DQOs). The DQOs shall, at a minimum, reflect use of analytical methods for identifying contamination and addressing contamination consistent with the levels for remedial action objectives identified in the National Contingency Plan. The QAPP developed for the previous site work (RI/FS, O&M, etc.) should be referenced or adapted whenever possible when preparing the QAPP for this work assignment.
- health and Safety Plan (HASP). The contractor shall prepare a site-specific HASP that specifies employee training, protective equipment, medical surveillance requirements, standard operating procedures, and a contingency plan in accordance with 40 CFR 300.150 of the NCP and 29 CFR 1910.120 1(1) and (1)(2). A task-specific HASP must also be prepared to address health and safety requirements for site visits.

Team or Pool Subcontract Management. If the contractor proposes utilization of a team or pool subcontractor to implement any portion of the work outlined in this SOW, the contractor shall incorporate the effort associated with management of the team or pool subcontractor under this SOW element.

#### Task 2 Expert Technical Assistance (ET)

This task includes providing expert knowledge to the EPA in a variety of technical areas, including but not limited to, vapor intrusion sampling. The contractor shall provide the following support under this task.

- Technical Meeting Assistance. This task includes work efforts related to attendance at and documentation of meetings with EPA and PADEP. The contractor shall attend various meetings throughout the performance of the work assignment/task order. These meetings are in addition to the meetings specifically included within other tasks in this SOW. The contractor may be required to prepare meeting minutes or comments. For budgeting purposes the contractor shall assume 3 meetings. It should be assumed that the meetings will take place via conference call or in the EPA Region 3 office. It is anticipated that each meeting will last approximately 3 hours and that 1-2 contractor staff person will attend each meeting.
- Technical Assistance. The contractor shall provide assistance in the development and/or review of technical information/documentation relating to the site (e.g., application of a specific technology on a specific site). The contractor shall provide technical assistance consisting of various technical reviews, evaluations, modeling activities, and assessments at the site, as necessary.

# Task 3 Analytical Support and Data Evaluation (AS/DE)

Schedule, coordinate, track, and oversee baseline sample analyses and validate analytical data. Typical activities include, but are not limited to, the following:

- If necessary, aid in obtaining access agreements from owner of the properties to be surveyed.
- Drilling the before mention wells to the deep required by this SOW.
- Collecting, preparing, and shipping environmental samples in accordance with the Field Sampling Plan (FSP). Outdoor air sampling.
- Developing data quality objectives (DQO) for each sampling event; these DQOs shall be the determining factor for assessing the success or failure of the sampling.
- Requesting, obtaining, and performing oversight of analytical services in compliance with EPA requirements.
- Coordinating with the EPA Sample Management Office, the Regional Sample Control Coordinator, and/or the Environmental Services Division regarding analytical support, data validation, and quality assurance issues.
- Implementing the EPA-approved laboratory quality assurance program that provides oversight of in-house and subcontracted laboratories through periodic performance evaluation sample analyses and/or on-site audits of operations and includes a system of corrective actions.

- Providing sample management including chain of custody procedures, information management, sample retention, and 10-year data storage.
- Assuring data validation, the process by which the quality of the data, the defensibility of the data, and the chain of custody are verified. Making sure data validation is in accordance with Regional guidelines.
- Reviewing data for usability for its intended purpose.
- Providing reports on data validation and usability, as well as report of results with recommendations.
- Preparation of CSM explaining conditions at the Site.

# Task 4 Work Assignment/Task Order Closeout (CO)

The Contractor shall perform the following efforts related to work assignment/task order close out.

- Return of documents to EPA or other document repositories
- File duplication, distribution, and storage
- File archiving to meet Federal Records Center requirements
- Use of microfiche, microfilm, or other EPA-approved data storage technology
- Prepare a Work Assignment/Task Order Close-out Report (WACR) in accordance with regional guidance or other procedures as specified in the Work Assignment/Task Order.
   If the final hours/budget is greater than +/- 10% of the original approved work plan hours/budget, the WACR shall describe the circumstances that explain why this occurred.

# Attachment 1- Summary of Major Submittals & Delivery Schedule

TASK	DELIVERABLE	NO. OF COPIES	DUE DATE (in calendar days)	
1	Technical Assistance Memo or Work Plan	3	30 days after receipt of work assignment/task order	
1	Revised Technical Assistance Memo or Work Plan (if necessary)	3	15 days after meeting/ agreement of EPA comments	
1	Monthly Progress Reports	3	In accordance with contract requirements	
1	Responses to financial information requests	1	5 days after WAM/COR request	
1	Revised Site-Specific Plans	2	To Be Determined	
2	Technical Memo following Vapor Intrusion evaluation	3	60 days after completion of sampling	
3	Work Assignment Closeout Report	3	As directed in Work Assignment Closeout Notification	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT (WA) INFORMATION							
Project Name: Peck Iron and Metal  Activity: RIFS		Contractor:HGL		WA No.: 044RICOA3Z4  Revision No.: 17 (Seventeen)			
		EPA Contract No. EP-S3-0705  Contractor Control No					
Date:08-18-2015		Contractor Control No.		(Contracting Officer Use Only)			
2. DESCRIPTION OF A  New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	— Partial WP Approduced — WP Disapproval — Final WP Approval — Amendment to Final WP Approval — Approve change in scope, or budget — Approve additional	ral nal LOE,	Technical Director Memorandum Details on scope schedule Minor shift within (no change in \$/I Change WAM  X Set or revise limit (EL)	, budget, or in SOW LOE)	. Fund app  WA Cl . Notify co closeout . Revise E	loseout Notification ontractor to initiate WA
3. BUDGET INFORMATION							
Completion WA Term WA  Total Funding Received (\$)		Approved W LOE Term WAs Only	Work Plan Budget (\$)*		Expenditure Limits Not to Be Exceeded  LOE (\$)* Term WAs only		
Previous Total		11,173	<u>11,173</u> <u>2,185,657</u>		7,090	)	1,470,000
This Action		0	0		3,000 600,000		600,000
New Total Funding Category: Bulk Funding		11,173 2,185,657 * Includes fees		<u>85,657</u>	10,090 2,070,000 * Includes fees		2,070,000
Activity Code: <u>RICO</u>							
4. WA COMPLETION DATE Current: 12-31-2016 Revised:							
5. EPA COMMENTS:  This amendment increases the expenditure limits in order to allow the contractor to complete previously approved tasks.							
6. APPROVALS							
Contractor Signatures:			EPA Signatures:				
Site Manager/Firm		Date	/s/ Debra Rossi 08-18-2015 Work Assignment Manager Date Phone Number Ext. 4-3228			Date	
Program Manager/Firm	Environmental Engineer			Phone Numb	08-18-2015 Date per <u>Ext. 4-3281</u>		
X_Approved AsApproved WithNot Submitted Changes Approved Signature of Contracting Officer, Date							

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN	IT (WA) INFORMATION						
Project Name: Kane and Activity: RD Oversight Date: 08-11-2015	nt E	Contractor:         HGL.         WA No.:         047ROBE03B2           EPA Contract No.         EP-S3-07-05         Revision No.:         13 (Thirteen)           Control No.         Modification No.:         319					
(Contracting Officer Use C		Control No.				· · · · · · · · · · · · · · · · · · ·	
2. DESCRIPTION OF A	CTION			1			
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	X WA Amendment (need revised WP and/or cost estimate) Change in LOE or scope by task Add additional tasks or funds for increased activity	— Partial WP Approduction — WP Disapproval — Final WP Approduction — Amendment to Final WP Approval . Approve change in scope, or budget . Approve additional	Memorandum Details on scope, bud schedule Minor shift within SC (no change in \$/LOE) Change WAM  Memorandum Change in \$/LOE Change WAM  X Set or revise expension (EL)		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other	
3. BUDGET INFORMA	TION				1		
Completion WA	Term WA	Approved V	Vork Plan	Budget	Expenditure Limits Not to Be Exceede		
Total Funding Receiv	red (\$)	LOE Term WAs Only	(\$)*		LOE Term WAs	(\$)* only	
Previous Total	140,165	_1072	<u>1072</u> <u>140,165</u>		<u>1072</u> <u>140,165</u>		
This Action	5,000						
New Total <u>145,165</u>		1072 140,165 * Includes fees		1122 145,165 * Includes fees			
Funding Category: <u>Site Specific</u>		includes rees					
Activity Code: ROBE S/SID: 03B2							
4. WA COMPLETION	DATE Current: 12-31	1-2015	Revise	ed:		Addition to the second of the	
5. EPA COMMENTS: HGL is authorized to develop a workplan for the following: Assistance in overseeing the PRP groundwater pump a pilot study treatment facility, construction activities and start up. These oversight activities include: (1) data collection, for at least one year; (2) comparative data analysis with the previous modeling performed to see the model fits the hydraulics of acquirer; (3 evaluating the need for changes to modeling or expanding pilot study for two mile-long plume; (4) providing assistance on developing proposed Remediation plans and ROD; (5) providing support for a public meeting; (6) checking the construction for proper functioning and design of a mitigation system in one industrial facility installed by the PRP and; (7) evaluate the implemented and proposed mitigation system's performance based on post mitigation sampling and comparing with EPA risks number identified in the workplan.  See attached SOW for further guidance.							
6. APPROVALS							
Contractor Signatures:			EPA Signatures:				
Site Manager/Firm	Work Assig		Shupi Khona 08-11-2015  K Assignment Manager Date  le Number (215) 814-3213				
Program Manager/Firm		Date	/s/ <u>Mikal Shabazz</u> Project Officer Ext. 4-328		1	08-11-2015 Date	
Approved As _X A Submitted Chang	approved With Not ges Approved		Signatur	MT Cry e of Contracting Offi	icer,	Uspie D8 20/15	

# Revision 9 Work Assignment # <u>047ROBE03B2</u> STATEMENT OF WORK FOR REMEDIAL DESIGN (OU 2) OVERSIGHT

Kane & Lombard Drum Site, Baltimore, MD

#### Additional subtask # 5 under Task 8

Engineering review of mitigation system needs to be performed, PRP performance of the mitigation monitoring would be required based on post construction sampling. This sub task would require evaluation of PRP monitoring and recommendation, if found to be necessary. The one PiCorp building mitigation plan needs to be reviewed. If the design is involved, it needs to be evaluated.

### Additional subtask # 6 under Task 8

Oversight would be required during the construction, review of design and safety concerns associated with hydrogen peroxide based ultra violet treatment of organics. Data generated form the Pilot Study data needs to be analyzed and checked. Compare with the model that was used previously. A new modeling of the data would be required to assess the true hydraulic characteristics of the aquifer. Recommendation on number of extraction wells will need to be evaluated. Technical assistance to develop a proposed plan and ROD. Provide community relation for one public meeting which was tasked previously.

AMENDME	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	PA	GE OF P	AGES		
2 AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. R	EQUISITION/PURCHASE REQ. NO.	5. PROJI	1   ECT NO. (h	3 fapplicable)		
							,,,,,,		
0320 6. ISSUED BY	Y CODE	See Block 16C	7.6	ADMINISTERED BY (If other than Item 6)	CODE				
1650 AF	3 IRONMENTAL PROTECTION RCH STREET ELPHIA PA 19103-2029	Amanu grave			ı				
8. NAME AND	D ADDRESS OF CONTRACTOR (No., stree	ot, county, State and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.					
11107 S	OLOGIC INC UNSET HILLS ROAD SUIT VA 20190-5309	E 400	9B. DATED (SEE ITEM 11)						
			х	10A. MODIFICATION OF CONTRACT/ORDER N EP-S3-07-05	NO.				
			]	10B. DATED (SEE ITEM 13)					
CODE 19	93942604	FACILITY CODE		06/28/2007					
	,	11. THIS ITEM ONLY APPLIES TO	AMEN	IDMENTS OF SOLICITATIONS					
THE PLAC virtue of thi to the solic	E DESIGNATED FOR THE RECEIPT OF is amendment you desire to change an offe itation and this amendment, and is receive ITING AND APPROPRIATION DATA (If rendedule	OFFERS PRIOR TO THE HOUR AND er already submitted, such change may d prior to the opening hour and date spe quired)	DATE be ma ecified.	FAILURE OF YOUR ACKNOWLEDGEMENT TO SPECIFIED MAY RESULT IN REJECTION OF Y de by telegram or letter, provided each telegram or modifies the contract/order No. AS Di	OUR OFFI	ER. If by kes referen			
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority) TH	IE CH/	ANGES SET FORTH IN ITEM 14 ARE MADE IN	THE CONT	RACT			
	B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	CT/ORDER IS MODIFIED TO REFLEC H IN ITEM 14, PURSUANT TO THE AU	T THE JTHOR	ADMINISTRATIVE CHANGES (such as change: ITY OF FAR 43.103(b).	s in paying	office,			
	C. THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED INTO PURSUANT TO	AUTH	ORITY OF:					
	D. OTHER (Specify type of modification	and authority)							
Х	Unilateral - B.2 Wor	••							
E. IMPORTAN		is required to sign this document a	nd refu	urn copies to the issuir	ng office				
14. DESCRIF DUNS Nu		(Organized by UCF section headings,	includi	ng solicitation/contract subject matter where feas	sible.)				
					full force	nd off- :			
	ovided herein, all terms and conditions of the AND TITLE OF SIGNER (Type or print)	ne accument referenced in Item 9A or 1		heretofore changed, remains unchanged and in 6A. NAME AND TITLE OF CONTRACTING OFF					
, o, i, iaraville F	The or ordinary (Type of pinty			iffany Gillespie		p.ms/			
15B. CONTR	ACTOR/OFFEROR	15C. DATE SIGNED	10	BB. UNITED STATES OF AMERICA	lept	) 16C.	DATE SIGNED		
	(Signature of person authorized to sign)			(Signature of Contracting Officer)	<del></del>		· V ( Q T   1)		
NICNI 7E 40 04	4.60.0070				STANDAR	D FORM 30	) (REV 10-83)		

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

	EPA WORK ASS	SIGNMENT FO	RM (W.	AF) FOR RA	AC			
1. WORK ASSIGNMEN	Γ (WA) INFORMATION							
					****	ACADICOATOR		
Project Name: Chem-Fab	<u>DU 1</u>	Contractor: HGL				052RICO03DR_		
Activity: RIFS		EPA Contract No				No.: 19 (Ninete	<u>:en)</u>	
Date: <u>08/20/2015</u> (Contracting Officer Use O	nly)	Contractor Control 1	No		Modifica	tion No.: 320		
2. DESCRIPTION OF A	CTION							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM  Designate WAM  3. BUDGET INFORMATION		WP Disapproval  Final WP Approval  X Amendment to Final WP Approval  Memora Details on schedule Minor shit (no chang) Change W WP Approval		Memorandum Details on scope, schedule Minor shift withi (no change in \$/I Change WAM X Set or revise of	Memorandum tails on scope, budget, or nedule nor shift within SOW change in \$/LOE) ange WAM Set or revise expenditure		_ Incremental Funding Fund approved WP  _ WA Closeout Notification Notify contractor to initiate WA closeout task Revise EL after final invoice _ Other	
3. BUDGET INFORMA	ΓΙΟΝ							
Completion WA X	_Term WA	Approved V	udget	Expen	diture Limits No	t to Be Exceeded		
Completion WA X_Term WA  Total Funding Received (\$)  Previous Total		LOE Term WAs Only		(\$)*	LOE Term WAs o	only	(\$)*	
Previous Total		5,729		1,265,896	5,4	79	1,241,067	
This Action	<del></del>	1,000		100,002	1,000100		100,002	
New Total		6,729		1,365,898	6,4 * Includes fo	<u>79</u>	1,341,069	
Funding Category: Bulk	Funding	* Includes fees			· metudes re	ces		
Activity Code: RIFS	S/SID: <u>03DR</u>							
4. WA COMPLETION I	DATE Current: 06-	30-2016	Revise	ed:				
5. EPA COMMENTS:								
This amendment dire	cts HGL to develop a Fe	ocused Feasibility St	udy to ev	aluate interim al	ternatives f	or groundwate	er treatment.	
6. APPROVALS								
Contractor Signatures:			EPA Sigi	natures:				
Site Manager/Firm		Date		Ngo x Assignment Mana ne Number	ger		20-2015 Date 14-3187	
Program Manager/Firm		Date	Proje	l Shabazz ct Officer e Number			20-2015 Date 814-3281	
X Approved As ApSubmitted Chang	proved With Not es Approved	, 	Signature of	any K &	Yillop		08/27/15 Date	

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMENT	Γ (WA) INFORMATION			,,,,				
Project Name: <u>Standard Cl</u> Activity: <u>Remedial Action</u> Date: <u>08/26/2015</u>		Contractor: HGL  EPA Contract No. E  Contractor Control N	EP-S3-07-0	05	WA No.: 060RARA03H6  Revision No.: 7  Modification No.: 320  (Contracting Officer Use Only)			
2. DESCRIPTION OF A	CTION							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM			al inal LOE,	E, Set or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice Other		
3. BUDGET INFORMATION								
Completion WA _X_ Term WA  Total Funding Received (\$)  Previous Total		Approved W  LOE Term WAs Only	Work Plan Budget (\$)*  17,390,395 0  17,390,395		Exper  LOE Term WAs of 13,846	5 17,390,395 0 0 17,390,395		
Activity Code: RARA		30-2017	Revi	and:	I			
within the OU3 cap.		fy the remedial design	ı to allo	w for incorporati		emporary Soil Storage Area soil amendment.		
6. APPROVALS								
Contractor Signatures: Site Manager/Firm Program Manager/Firm		Date Date	/s/ <u>Bra</u> Wo Pho	gnatures:  d White rk Assignment Mana one Number sal Shabazz	ger	08-26-2015 Date 215-814-3217 08-26-2015		
			Pro	ject Officer one Number		Date <u>215-814-3281</u>		
Approved As X Ap Submitted Chang			Jeff Signature	of Contracting Office	1 00 160	© 08/27/15 Date		

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	T 1. CONTRACT ID CODE		PAGE OF PAGES		
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4.	REQUISITION/PURCHASE REQ. NO.	15 PRO	1 DJECT NO. (If applic	6
0321	See Block 16C				<b>0</b> (ii applic	00.07
6. ISSUED BY CODE	R3	7.	ADMINISTERED BY (If other than Item 6)	CODE	1	
REGION 3 US ENVIRONMENTAL PROTECTION 1650 ARCH STREET PHILADELPHIA PA 19103-2029	AGENCY					
8. NAME AND ADDRESS OF CONTRACTOR (No., street,	, county, State and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.			
HYDROGEOLOGIC INC						
11107 SUNSET HILLS ROAD SUITE	£ 400		9B. DATED (SEE ITEM 11)	····		
RESTON VA 20190-5309						
		x	10A. MODIFICATION OF CONTRACT/ORDER N EP-S3-07-05	IO.		
CODE 102042604	15.00		10B. DATED (SEE ITEM 13)			
193942604	FACILITY CODE		06/28/2007			•
The above numbered solicitation is amended as set for	11. THIS ITEM ONLY APPLIES TO A					
Offers must acknowledge receipt of this amendment putterns 8 and 15, and returning copseparate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF CVITURE of this amendment you desire to change an offer to the solicitation and this amendment, and is received 12. ACCOUNTING AND APPROPRIATION DATA (If required)	rior to the hour and date specified in the pies of the amendment; (b) By acknowled to the solicitation and amendment numb DFFERS PRIOR TO THE HOUR AND D. already submitted, such change may be prior to the opening hour and date spec	solic dging ers. ATE e ma	citation or as amended, by one of the following met g receipt of this amendment on each copy of the off FAILURE OF YOUR ACKNOWLEDGEMENT TO SPECIFIED MAY RESULT IN REJECTION OF YO do by telegram or letter, orovided each telegram or	hods: (a fer subm BE REC	itted; or (c) By EIVED AT EER If by	
See Schedule						
13. THIS ITEM ONLY APPLIES TO MO	ODIFICATION OF CONTRACTS/ORDER	S. I	T MODIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBE	D IN ITEM 14.	
CHECK ONE  A. THIS CHANGE ORDER IS ISSUED PORDER NO. IN ITEM 10A.	URSUANT TO: (Specify authority) THE	CH	ANGES SET FORTH IN ITEM 14 ARE MADE IN T	HE CON	ITRACT	
B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH	T/ORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AUT	THE	ADMINISTRATIVE CHANGES (such as changes ITY OF FAR 43.103(b).	in payin	g office,	
C. THIS SUPPLEMENTAL AGREEMENT	TIS ENTERED INTO PURSUANT TO A	UTH	ORITY OF:			
D. OTHER (Specify type of modification a	and authority)					
X Unilateral - B.2 Wor	k Assignments					
E. IMPORTANT: Contractor X is not,	is required to sign this document and	d reti	urn copies to the issuing	office.		
14. DESCRIPTION OF AMENDMENT/MODIFICATION (IDUNS Number: 193942604	Organized by UCF section headings, inc	cludi	ng solicitation/contract subject matter where feasit	ole.)		
The purpose of this modificat	tion is to issue Rev	is:	ion 22 to Work Assignment	013	TATA03P9,	
Revision 6 to Work Assignment						
Revision 1 to Work Assignment	062RXBF03W6 and Re	vis	sion 4 to Work Assignment	063	TATA03W6.	
	•					
Except as provided herein, all terms and conditions of the	e document referenced in Item 9A or 10A	۱, as	heretofore changed, remains unchanged and in fu	ill force a	and effect.	
15A. NAME AND TITLE OF SIGNER (Type or print)		16	SA. NAME AND TITLE OF CONTRACTING OFFICE	CER (Ty)	oe or print)	
		T	iffany Gillespie			
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16	B. UNITED STATES OF AMERICA	20	16C. DATE S	IGNED //
(Signature of person authorized to sign)			(Signature of Contracting Officer)	1	4 W/1	10/11
NSN 7540-01-152-8070 Previous edition unusable			Pr	escribed	D FORM 30 (REV. 1 by GSA FR) 53.243	0-83) /

EP-S3-07-05/0321

Page 1 of 6

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC							
1. WORK ASSIGNMEN								
Project Name: He	llertown Manufacturi al Assistance 5 Contractor er Use Only)	EPA Contract No.	EPS3  Droval  Final  in  r	0705 Re	Direction scope, schedule within in	Twenty-Two (22)		
3. BUDGET INFORMA	rion	L						
3. BUDGET INFORMATION  Completion WA Term WA Approved Term WA LOE Term WAS Previous Total			5	88,897 5,000 93,897 Revised:	LOE Term WAS of	93,897 5,000 93,897		
6. APPROVALS								
Contractor Signatu Site Manager/Firm Program Manager/Fir		Date Date	Timoth Work A	signatures:  ny M. Gallagher  sssignment Mana  Shabazz  nmental Engine	ger	09-10-2015 Date 09-10-2015 Date		
Approved As _X Ap Submitted Cha		oved	ill	any K	jillsp	" 09//5//5 Date		

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMEN	T (WA) INFORMATION							
Project Name: <u>AIW Fr</u>	ank - OUI	Contractor.:	HGL		WA No.:	054 RIFS 032	: <u>S</u>	
Activity: RIFS – Var	oor Intrusion Sampling	EPA Contract	No. <u>EP-S</u>	3-07- 05	Revision	No.: <u>Six (6)</u>		
Date: 09-10-2015 (Contracting Officer Use C	Contractor Con	trol No.			Modifica	tion No.: 321		
2. DESCRIPTION OF A	CTION							
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	_ WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Appr WP Disapproval Final WP Approv  X Unilateral Ame to Final WP Approv . Approve change in scope, or budget . Approve additiona	val endment al LOE,	X Technical Direct Memorandum Details on scope, schedule Minor shift within (no change in \$/I Change WAM X Set or revise limit (EL)	, budget, or in SOW LOE)	Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate W. closeout task . Revise EL after final invoiceOther		
3. BUDGET INFORMA	TION							
Completion WA _X	_Term WA	Approved V	Vork Plan	Budget	Expen	enditure Limits Not to Be Exceeded		
Total Funding Received (\$)		LOE Term WAs Only	(\$)*		LOE Term WAs only		(\$)*	
Previous Total		1112		\$ 136,597	1112		\$ 136,597	
This Action		<b>25</b> 0		25,000	250	)	25,000	
New Total		<u>1362</u>		3 161,597	1362		\$ 161,597	
Funding Category: <u>Bulk</u>		* Includes fees			* Includes fe	ees	•	
Activity Code: <u>CO</u> S	S/SID: <u>032S</u>							
4. WA COMPLETION I	OATE Current: 00	5/30/2016	Revi	sed:				
5. EPA COMMENTS:								
the cost and LOE hou receipt. If the contract	t amendment is being is rs, the contractor is req etor does not concur, thi	uired to return a sign is must be noted on t	ed copy he work	of the work assig assignment form	gnment form	within 5 wo	rking days after	
This work assignment Decision.	t amendment adds LOE	and dollars for cont	ract supp	ort in developing	g a draft Pro	posed Plan ar	nd Record of	
In addition, the WAN	I is changed to Gregory	Voigt.						
6. APPROVALS								
Contractor Signatures:			EPA Si	gnatures:				
Site Manager/Firm		Date	Gregory Work A	_	737	Date 09-	10-2015	
Program Manager/Firm		Date	Mikal S			Date 09	9-10-2015	
X Approved As A	approved With Not	,	74	Jany K	Bill	espie	09/15/15	

	EPA WORK ASSIGNMENT FORM (WAF) FOR RAC									
1. WORK ASSIGNMEN	T (WA) INFORMATION									
Project Name: <u>Ravenswer</u> Activity: <u>Remedial Action</u> Date: <u>09/14/2015</u>		Contractor: HGL  EPA Contract No. Contractor Control	EP-S3-07-05	5	Revision l	058RARAC36 No.: 4 (Four	)			
2. DESCRIPTION OF A	CTION				(Contrac	ting Officer U	se Only)			
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity		WP Disapprova Final WP Approval Amendment to the WP Approval . Approve change is scope, or budget	WP Disapproval  Final WP Approval  Amendment to Final WP Approval Approve change in LOE.		Technical Direction Memorandum . Details on scope, budget, or schedule . Minor shift within SOW (no change in \$/LOE) . Change WAMSet or revise expenditure limit (EL)		eout Notification tractor to initiate WA tsk after final invoice : Extend the POP			
3. BUDGET INFORMA	IION				-					
Completion WA ]	Approved Work Plan Budget			Expenditure Limits Not to Be Exceeded						
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs only		(\$)*			
Previous Total1,2	243,002	4,860		,243,002	4,	660	<u>1,115,546</u>			
This Action  New Total 1.3		4,860 * Includes fees	_ _1	0	-		0 			
Funding Category: Site S  Activity Code: RA S					meruaes re		,			
4. WA COMPLETION I	DATE Current: 9-3	0-2015	Revised	d: <u>9-30-2016</u>						
5. EPA COMMENTS: This amendment	extends the Period	d of Performand	ce.							
6. APPROVALS										
Contractor Signatures:			EPA Sign	natures:						
Site Manager/Firm Dat		Date	Work	ony C. Iacobone Assignment Manag ne Number	ger		99-14-2015 Date 5-814-5237			
Program Manager/Firm		Date		l Shabazz ct Officer e Number			9-14-2015 Date 5-814-5779			
X Approved As Ap Submitted Change	proved With Not		Fignature of	Tony /	Bull	epie	09/15/15 Date			

	EPA WORK AS	SIGNMENT FO	ORM (W	/AF) FOR R	AC		
1. WORK ASSIGNMEN	T (WA) INFORMATION						
Project Name: North Penn Activity: Remedial Action Date: 09/15/2015		Contractor: HGL EPA Contract No. Contractor Control	EP-S3-07-	05	WA No.: 062RXBF03W6  Revision No.: 1 (One)  Modification No.: 321		
2. DESCRIPTION OF A	CTION			·	(Contract	cting Officer Use Only)	
New WA _ Attach SOW including schedule _ Designate WAM _ Change in LOE or scop by task _ Add additional tasks or funds for increased activity		— Partial WP Approval  — WP Disapproval  — WP Approval  — Amendment to Final  WP Approval  . Approve change in LOE, scope, or budget . Approve additional tasks		Technical Direction     Memorandum . Details on scope, budget, or schedule . Minor shift within SOW (no change in \$/LOE) . Change WAMSet or revise expenditure limit (EL)		Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX Other: Extend POP	
3. BUDGET INFORMA	ΓΙΟΝ						
Completion WA X Term WA		Approved Work Plan Budget			Exper	nditure Limits Not to Be Exceeded	
Total Funding Receive	ed (\$)	LOE Term WAs Only		(\$)*	LOE Term WAs	(\$)* only	
Previous Total	<u>0</u>	819		99,730	819_	99,730	
This Action	0			0	0		
New Total  Funding Category: Bulk    Activity Code: RXBF	0 Funding S/SID:03W6	* Includes fees		99,730	* Includes fo		
4. WA COMPLETION I	OATE Current: 09-	30-2015	Revis	ed:09-30-2016	1		
5. EPA COMMENTS: This work assign	ment amendment	extends the Peri	iod of P	erformance.			
6. APPROVALS							
Contractor Signatures:			EPA Sig	natures:			
Site Manager/Firm		Date		on Fang k Assignment Mana ne Number	ger	09-15-2015 Date 215-814-3018	
Program Manager/Firm		Date	Proje Phor	dette Reed ect Officer ne Number		09-15-2015 Date 215-814-2997	
X_Approved As Approved As Approved As Approved As Approved As Approved Ap	proved With Not Norroyed		J. W.	Francy K	Sill.	exic 09/15/15	

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMEN	T (WA) INFORMATION				***************************************	A CONTRACTOR OF THE CONTRACTOR		
Project Name: North Penn	Area 5 - OU1	Contractor: HGL			WA No.:	<u>063TATA03W6</u>		
Activity: <u>Technical Assis</u>	tance	EPA Contract No.	EP-S3-07-	-05	Revision	No.: <u>Four (4)</u>		
Date: <u>09/10/2015</u>		Contractor Control	No Modification No.: <u>321</u> (Contracting Officer Use Only)					
2. DESCRIPTION OF A	CTION							
New WA . Attach SOW including schedule . Designate WAM WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scop by task . Add additional tasks or funds for increased activity		— Partial WP Approval  — WP Approval  —X— Unilateral Amto Final WP Approv  Approve change in scope, or budget  Approve additiona	endment al a LOE,	Technical Direction     Memorandum . Details on scope, budget, or schedule . Minor shift within SOW (no change in \$/LOE) . Change WAMSet or revise expenditure limit (EL)		Incremental Funding . Fund approved WP WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceX_ Other (Extend POP)		
3. BUDGET INFORMA	rion							
Completion WA X_Term WA Approved Work Plan Budget Expenditure Limits Not to Be Exceede						aditure Limits Not to Be Exceeded		
Total Funding Receive	ed (\$)	LOE Term WAs Only	(\$)*		LOE Term WAs o	(\$)* only		
Previous Total	<u>0</u>	1229	149,113		1229			
This Action	0	300		<u> </u>	300	0		
New Total0		1529	14	49,113	1529	<u> 149,113</u>		
Funding Category: Bulk I	Funding	* Includes fees			* Includes fe	ees		
Activity Code: TATA	_ S/SID: <u>03W6</u>							
4. WA COMPLETION I	OATE Current: 12-3	30-2015	Revis	ed: <u>03-31-2016</u>				
5. EPA COMMENTS:								
contractor concurs form within 5 work assignment form.  This amendment e	s with the LOE hour king days after recei	s, the contractor pt. If the contrac adds 300 LOE ho	is requir tor does ours for	red to return a s not concur, t completion of	signed co his must b	th the contract. If the py of the work assignment e noted on the work  Fechnical Assistance, in		
6. APPROVALS			i					
Contractor Signatures:			EPA Sig	gnatures:				
Site Manager/Firm		Date		on Fang k Assignment Manaş ne Number	ger	09-10-2015 Date 215-814-3018		
Program Manager/Firm		Date	Proj	al Shabazz ect Officer ne Number		09-10-2015 Date 215-814-3281		
Approved AsX_ A Submitted Change	pproved With Not S Approved	<u>.</u>	Signature o	Aceny K	Gille.	pio 09/15/15		

AMENDME	NT OF SOLICITATION/MODIFIC	ATION OF CON	TRACT		1. CONTRACT ID CODE		PAGE O	PAGES
2. AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE DA	TE	4. R	EQUISITION/PURCHASE REQ. NO.	5. PF		). (If applicable)
0322		See Block	16C	Se	e Schedule			
6. ISSUED BY	CODE	R3		7. /	ADMINISTERED BY (If other than Item 6)	COD	E	
1650 AR	3 RONMENTAL PROTECTION CH STREET LPHIA PA 19103-2029	AGENCY	·				<b>1</b>	
8. NAME AND	ADDRESS OF CONTRACTOR (No., street	, county, State and ZIP	Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.			
HYDROGEC 11107 SU	DLOGIC INC UNSET HILLS ROAD SUITE VA 20190-5309		,	7	9B. DATED (SEE ITEM 11)			
				х	10A. MODIFICATION OF CONTRACT/ORDER EP-S3-07-05	NO.		
<del></del>					10B. DATED (SEE ITEM 13)			
CODE 19	3942604	FACILITY CODE			06/28/2007			
		11. THIS ITEM (	ONLY APPLIES TO A	MEN	IDMENTS OF SOLICITATIONS			
virtue of this	s amendment you desire to change an offe tation and this amendment, and is received FING AND APPROPRIATION DATA (If req edule	r already submitted, I prior to the opening uuired)	such change may be g hour and date speci Net	ma ified. I	SPECIFIED MAY RESULT IN REJECTION OF de by telegram or letter, provided each telegran ncrease:	or lette	, 000 . 0	orence 0
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED F	PURSUANT TO: (Sp	pecify authority) THE	CHA	ANGES SET FORTH IN ITEM 14 ARE MADE IN	THE C	ONTRACT	
	B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH	CT/ORDER IS MOD I IN ITEM 14, PURS	IFIED TO REFLECT SUANT TO THE AUTI	THE	ADMINISTRATIVE CHANGES (such as chang ITY OF FAR 43.103(b).	es in pay	ving office,	
	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INT	O PURSUANT TO A	UTH	ORITY OF:			
	D. OTHER (Specify type of modification	and authority)						
Х	Unilateral - B.2 Wor	k Assianme	ents and B.	6	Limitation of Funds Not:	.ce		
E. IMPORTAN			ign this document and				e.	
14. DESCRIP DUNS Nur	TION OF AMENDMENT/MODIFICATION	(Organized by UCF	section headings, inc	cludi	ng solicitation/contract subject matter where fee	sible.)		
	,							
Continue	ad							
		ne document referer	nced in Item 9A or 10	Δας	heretofore changed, remains unchanged and i	n full forc	ce and effec	ıt.
	ND TITLE OF SIGNER (Type or print)	accamon folder			6A. NAME AND TITLE OF CONTRACTING OF			
				T	iffany Gillespie			
15B. CONTRA	ACTOR/OFFEROR	15	C. DATE SIGNED	10	SB, UNITED STATES OF AMERICA	lege	20 1	6C. DATE SIGNED
NICNI 75 40 04	(Signature of person authorized to sign)				(Signature of Contracting Officer)	STAND	ARD FORM	130 (REV 10-83)
NSN 7540-01 Previous edition					<b>*</b> •	Prescri	bed by GSA 8 CFR) 53.2	

EP-S3-07-05/0322

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE (	)F
CONTINUATION SHEET	EP-S3-07-05/0322	2	5

NAME OF OFFEROR OR CONTRACTOR
HYDROGEOLOGIC INC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	1 1	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Max Expire Date: 06/27/2017				-
	Change Item 0075 to read as follows(amount shown is the obligated amount):				
0075	HGL Inc. EP-S3-07-05				115,000.0
	Kane and Lombard OU2 RI/FS oversight				
	Obligated Amount: \$115,000.00				
	Requisition No: PR-R3-15-00413				
	Accounting Info:				
	15-TR2B-03S0XB2-303DD2-2505-03B2BD02-C002-1503SK10 47-001 BFY: 15 Fund: TR2B Budget Org: 03S0XB2 Program (PRC): 303DD2 Budget (BOC): 2505 Job #:				
	03B2BD02 Cost: C002 DCN - Line ID: 1503SK1047-001				
	Funding Flag: Partial Funded: \$115,000.00				
	Add Item 0076 as follows:				
0076	HGL Inc. EP-S3-07-05				100,000.0
	Bulk funds Requisition No: PR-R3-15-00517				
	Accounting Info: 15-T-3AS0P-303DD2-2505-C086-153ASB1032-001 BFY:				
	15 Fund: T Budget Org: 3ASOP Program (PRC): 303DD2 Budget (BOC): 2505 Job #: 03WQWQ00 Cost: C086 DCN - Line ID: 153ASB1032-001				
	Funding Flag: Partial Funded: \$100,000.00				
					•

## **Modification 322**

## **Item 14 Continuation**

- 1. The purpose of this modification is to obligate funds and to issue Revision 43 to Work Assignment 006RICO032C and Revision 14 to Work Assignment 047ROBE03B2.
- 2. Section B, Paragraph B.6, Limitation of Funds Notice (EP 52.232-100) is modified as follows:

	Contract Funding Thru MOD 319	Changes Under This MOD	Total Funding	
Term Form Segment		·		
Estimated Cost	\$T	- i o n / lo \	/ / \	
Fixed Fee	Exempt	tion (b)	(4)	
Total	\$52,634,177.40	\$215,000.00	\$52,849,177.40	

WORK ASSIGNMENT (WA) INFORMATION							
Activity: RI/FS   EPA Contract No. EP-S3-07-05   Revision No.: 43 (Forty-Three)							
Date:							
2. DESCRIPTION OF ACTION New WA (need WP for the WA) (need revised WP and/or cost estimate)							
2. DESCRIPTION OF ACTION  New WA (need WP for the WA) (need revised WP and/or cost estimate)  Including schedule (need wash)							
Completion WA   Completion WA   Total Funding Received (\$)							
Attach SOW including schedule  Designate WAM  Add additional tasks or funds for increased activity  Approve additional tasks  Approve additional tas							
Amendment to Final   Scope by task   Add additional tasks or funds for increased activity   Approve change in LOE, scope, or budget   Approve additional tasks   Approve additional t							
Scope by task Add additional tasks or funds for increased activity  3. BUDGET INFORMATION  Completion WA X Term WA Total Funding Received (\$)  Previous Total Total Total Total Total Activity  Previous Total Total Activity  Previous Total Activity  Approve additional tasks  WP Approval Approve change in LOE, scope, or budget . Approve additional tasks  Approve additional tasks  Approve additional tasks  Approve additional tasks  Approve dwork Plan Budget LOE (\$)*  Term WAs Only  Term WAs Only  Previous Total 1,463 214,800 1,383 142,000  New Total 26,342 3,183,320 26,335 2,994,207  * Includes fees  Funding Category: Bulk Funding Activity Code: RICO S/SID: 032C  4. WA COMPLETION DATE Current: 03-31-2016 Revised:   WA Completion WA Complete in LOE, (no change in \$/LOE)  Approve change in LOE, (no change in \$/LOE)  Approve dwork Plan Budget LOE (\$)*  Term WAs Only  Term WAs only  Term WAs only  1,463 214,800 1,383 142,000  26,335 2,994,207  * Includes fees  * Includes fees							
Approve change in LOE, scope, or budget activity							
Scope, or budget   Approve additional tasks							
Approve additional tasks   X   Set or revise expenditure limit (EL)							
3. BUDGET INFORMATION  Completion WA _X _ Term WA							
3. BUDGET INFORMATION  Completion WA _X _ Term WA							
Completion WA _X _ Term WA							
Total Funding Received (\$)  LOE (\$)*  Term WAs Only  Term WAs only  Previous Total  Previous Total  This Action  New Total  New Total  Activity Code: RICO S/SID: 032C  LOE (\$)*  Term WAs Only  Term WAs only  1,463 214,800 1,383 142,000 26,335 2,994,207  * Includes fees  * Includes fees  4. WA COMPLETION DATE  Current: 03-31-2016  Revised:							
Term WAs Only   Term WAs only							
Previous Total 24,879 2,968,520 24,952 2,852,207  This Action 1,463 214,800 1,383 142,000  New Total 26,342 3,183,320 26,335 2,994,207  * Includes fees * Includes fees  4. WA COMPLETION DATE Current: 03-31-2016 Revised:							
This Action							
26,342   3,183,320   26,335   2,994,207     * Includes fees   * Includes fees     4. WA COMPLETION DATE   Current:   03-31-2016   Revised:							
Funding Category: Bulk Funding Activity Code: RICO S/SID: 032C  4. WA COMPLETION DATE Current: 03-31-2016 Revised:							
Funding Category:							
Activity Code: _RICO							
4. WA COMPLETION DATE Current: 03-31-2016 Revised:							
5. EPA COMMENTS:  This WA amendment apprecias HCL's Workslan and Cost Estimate dated August 28, 2015							
This WA amendment approves HGL's Workplan and Cost Estimate, dated August 28, 2015.							
6. APPROVALS							
Contractor Signatures: EPA Signatures:							
Contractor Signatures: EPA Signatures:							
Site Manager/Firm Date /s/ Stephen Tyahla 09-22-2015							
Work Assignment Manager Date							
Program Manager/Firm Date Phone Number 215-814-3268							
/s/ Mikal Shabazz 09-22-2015							
Project Officer Date							
Phone Number 215-814-3281							
1 1 AO							
X Approved As Approved With Not Jeffring 1/2 July 09/24/15							
Submitted Changes Approved Signature of Contracting Officer Date							

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC									
1. WORK ASSIGNMENT (WA) INFORMATION									
1. 11 0.11.11.11.11.11.11.11.11.11.11.11.11.11	. ( , , , , , , , , , , , , , , , , , ,		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>						
Project Name: Kane and	Contractor: HGL.		WA No.:_	047ROBE0	<u>3B2</u>				
Activity: RD Oversigh	Activity: RD Oversight EPA Contract No. EP-S3-0705 Revision No.: 14 (Fourteen)								
Date: 09-23-2015 (Contracting Officer Use O		Control No.		M	odification No.	:_ 322			
2. DESCRIPTION OF ACTION									
New WA (need WP for the WA) Attach SOW including schedule Designate WAM	WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	Partial WP Approval Final WP Approv Amendment to WP Approval Approve change in scope, or budget Approve additional	val Final LOE,	Technical Direction		Incremental Funding . Fund approved WPWA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoiceOther			
3. BUDGET INFORMATION									
Completion WA	Term WA	Approved Work Plan Budget		Budget	Expenditure Limits Not to Be Exceeded				
Total Funding Received (\$)		LOE Term WAs Only		(\$)*	LOE Term WAs o	(\$)* nly			
Previous Total	145,165	1,072		140,165	1,122	145,165			
This Action	115,000	899		108,046	849	103,046			
New Total	260,165	1,971 248,211			1,971 248,211 * Includes fees				
Funding Category: Site Specific		* Includes fees		es	Therades ie	es			
Activity Code: ROBE S/SID: 03B2									
4. WA COMPLETION DATE Current: 06-30-2017 Revised:									
5. EPA COMMENTS:  This WA amendment approves HGL's Work Plan and Cost Estimate, dated August 28, 2015 and revised on September 17, 2015.									
6. APPROVALS		manager 1 of the last of the l							
Contractor Signatures:			EPA Signatures:						
Site Manager/Firm		Date	Date /s/ Bhupendra Khona 09-23-2015 Work Assignment Manager Date Phone Number (215) 814-3213						
Program Manager/Firm		Date	/s/ Mikal Shabazz 09-23-2015 Project Officer Ext. 4-3281 Date						
Approved As _X_ A Submitted Chang	pproved With Not es Approved	Signature of	HWn Contraction	TK Solficer, Sol	Pepie	09/24/15 Date			

AMEND	MENT OF SOLICITATION/MOD	IFICATION OF	CONTRACT		CONTRACT ID CODE	PAGE 1	OF PAGES			
2. AMEND	MENT/MODIFICATION NO.	3. EFFECTI	VE DATE	4. R	EQUISITION/PURCHASE REQ. NO.		NO. (If applicable)			
0323		See Bl	ock 16C							
6. ISSUED	BY C	DDE R3		7. 4	DMINISTERED BY (If other than Item 6)	CODE	, <u>, , , , , , , , , , , , , , , , , , </u>			
1650	N 3 VIRONMENTAL PROTECTI ARCH STREET DELPHIA PA 19103-202									
8. NAME A	AND ADDRESS OF CONTRACTOR (No.	street, county, State	and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.					
HYDROGEOLOGIC INC 11107 SUNSET HILLS ROAD SUITE 400 RESTON VA 20190-5309					9B. DATED (SEE ITEM 11)  x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-S3-07-05					
				li	10B. DATED (SEE ITEM 13)					
CODE	193942604	FACILITY C	ODE		06/28/2007					
		11. THIS	ITEM ONLY APPLIES TO A	MEN	DMENTS OF SOLICITATIONS					
virtue of to the so	this amendment you desire to change a plicitation and this amendment, and is reconstructed and appropriation data chedule  13. THIS ITEM ONLY APPLIES  A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	n offer already sub beived prior to the of (If required)  TO MODIFICATION  JED PURSUANT T  TRACT/ORDER IS ORTH IN ITEM 14,	mitted, such change may be pening hour and date spector of CONTRACTS/ORDER  O: (Specify authority) THE CONTRACTS AUTHORITY TO THE AUTHORITY AUTHORITY TO THE AUTHORITY AUTHORITY AUTHORITY TO THE AUTHORITY AU	e made cified.	SPECIFIED MAY RESULT IN REJECTION OF Y- le by telegram or letter, provided each telegram or MODIFIES THE CONTRACT/ORDER NO. AS DE NGES SET FORTH IN ITEM 14 ARE MADE IN THE SECOND SECON	escribed in IT	eference FEM 14.			
	O. THE GOTT ELIMENT TENERAL	·			,					
	D. OTHER (Specify type of modific	ation and authority	)							
X	Unilateral - B.2	Work Assi	gnments							
E. IMPORT	ANT: Contractor X is n	ot, 🗌 is require	ed to sign this document an	d retu	rn copies to the issuir	g office.				
DUNS N The pu	lumber: 193942604	cation is			ng solicitation/contract subject matter where feasi		ЭЗН6 ъ			
15A. NAME	provided herein, all terms and conditions E AND TITLE OF SIGNER ( <i>Type or prin</i> TRACTOR/OFFEROR		eferenced in Item 9A or 10.  15C. DATE SIGNED	16 T	heretofore changed, remains unchanged and in the A. NAME AND TITLE OF CONTRACTING OFF iffany Gillespie  B. UNITED STATES OF AMERICA					
	(Signature of person authorized to sign)			1	FMC (Signafure of Contracting Officer)	spie	18/08/15			

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC								
1. WORK ASSIGNMENT (WA) INFORMATION								
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A made about 12 to 2				*** The same of th		
Project Name: Standard Cl	hlorine of DE – OU3	Contractor: HGL		<del>.</del>	WA No.:_	060RARA03H6		
Activity: Remedial Action EPA Contract No. EP-S3-07-05 Revision No.: 8 (Eight)						No.: <u>8 (Eight)</u>		
Date: 10/01/2015 Contractor Control No Modification No323  (Contracting Officer Use Only)								
2. DESCRIPTION OF ACTION								
New WA (need WP for the WA) . Attach SOW including schedule . Designate WAM	_ WA Amendment (need revised WP and/or cost estimate) . Change in LOE or scope by task . Add additional tasks or funds for increased activity	WP Disapproval Final WP Approv Amendment to Fi WP Approval . Approve change in scope, or budget	Final WP Approval schedule . Minor shift with (no change in \$\) Amendment to Final WP Approval . Approve change in LOE, set or revise expressions.		, budget, or in SOW LOE)	Incremental Funding . Fund approved WP  WA Closeout Notification . Notify contractor to initiate WA closeout task . Revise EL after final invoice _X Other _Revise the Period of Performance		
3. BUDGET INFORMA	rion							
Completion WA X	Term WA	Approved Work Plan Budget			Expenditure Limits Not to Be Exceeded			
Total Funding Receive	Funding Received (\$)  LOE Term WAs Only		(\$)*	LOE Term WAs o	(\$)* only			
Previous Total17,4	00,000	<u>13,846</u> <u>17,390,395</u>			13,846	17,390,395		
This Action	<u> </u>	0			0	0_		
New Total 17,46	00,000	13,846 17,390,395						
Funding Category: <u>Site-Specific</u>		* Includes fees			* Includes is	ees		
Activity Code: RARA	S/SID:03H6							
4. WA COMPLETION I	OATE Current: 06-	-30-2017	Revis	sed:6-27-2017				
5. EPA COMMENTS:								
This amendment authorizes the contractor to use a Geosynthetic Clay Liner (GCL) - The contractor shall use a single layer GCL in lieu of the 24-inch compacted low permeability soil layer specified in the Final Remedial Design for OU3. This is also in lieu of the combined 12-inch compacted low permeability soil layer and GCL that was provided as an option in the Final Remedial Design for OU3.								
<ul> <li>This amendment also includes Additional Scoping. The following tasks shall be added to the contractor's Statement of Work:</li> <li>Move or replace the existing fence line along the southern boundary of the site to the north side of existing public water supply line.</li> <li>Remove existing asphalt and concrete on the southern boundary of the site; prepare the subgrade for seeding with grass; provide topsoil and mulch; and establish grass vegetation.</li> </ul>								
6. APPROVALS								
Contractor Signatures:			EPA Si	gnatures:				
Site Manager/Firm		Date	/s/ Brad White         10-01-2015           Work Assignment Manager         Date           Phone Number         215-814-3217					
Program Manager/Firm		Date	/s/ Mikal Shabazz 10-01-2015 Project Officer Date Phone Number 215-814-3281					
X_Approved As Approved With Not ] Library 1/5illspie 10/08/15								
Submitted Change			Signature o	of Contracting Office	r, /	Date		